



## Combustion Research Associates

### Flare for Landfill Gas & Biogas

Biogas Flaring systems are installed at Landfills, Wastewater facilities, Digesters etc. to dispose off waste gases such as Landfill gas (LFG), Biogas, Syn gas, Producer gas, Sewage gas and Agricultural or Industrial Digester gas that are formed due to the anaerobic decomposition of biomass and organic matter.

Combustion Research Associates manufactures both Enclosed Ground Flares and Open and Elevated Flare stacks (Candlestick) to dispose off Biogas & Landfill gas.

These waste gases generated from Solid and Liquid wastes primarily consist of Methane, Water Vapor, Carbon Dioxide, Hydrogen Sulfide (H<sub>2</sub>S), NMOCs and other gas emissions.

CRA flares prioritise safety and efficiency, and hence employ special flame arrestors, aspirate burners and high quality pilots. Our flaring systems can be custom designed to meet specific emission values for carbon credit projects etc.



### Our Added Value

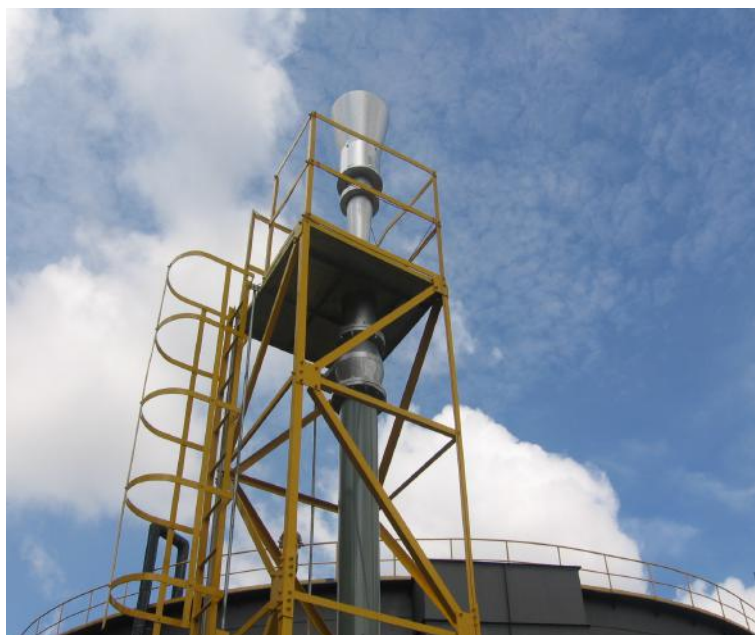
- + Over 400 flare systems installed globally
- + Our systems are designed to meet FM Global or any international certifications such as CSA, EN, TSSA, CGA and ATEX
- + Available as an enclosed flare or an open and elevated flare as per project requirements
- + Aspirator Burner design allows for high efficiency
- + Continuous or intermittent pilot function available
- + Available in Derrick, Guy wired & Self Supported Structures
- + Easy to install modular design
- + Approved by leading consultants

**Open & Elevated Flare for Biogas & Landfill Gas**  
 CRA open & elevated flares are designed as per API 521 and 537 standards and use aspirated burners to achieve more than 99% efficiency

**Compact Flare for small and low budget applications**  
 CRA pioneers in manufacturing special compact flares for utilizing Biogas and Landfill gas for small budget projects. Our flares offer quick installation due to their modular construction.

### The CRA advantage

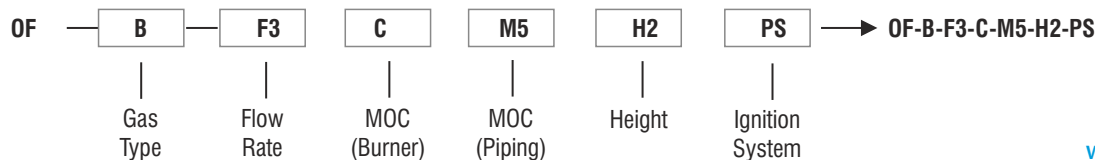
<b>Features</b>	High Destruction efficiency Available as Open & Elevated or Enclosed Flares Modular design allows for system flexibility and future expansion and quick installation
<b>Operation</b>	Regulatory compliance guaranteed Automated operation or manual operation
<b>Capacity</b>	0-50000 m3/hr. higher or lower capacity can be designed on request.
<b>Materials</b>	Compatible material as per requirement. Special materials available on request.



### Flare Selection and Ordering Chart

Model	Gas Type	Flow Rate Nm3/Hr	MOC (Burner)	MOC (Piping)	Height (H)	Ignition System
Open Flare- <b>OF</b>	Biogas- <b>A</b> Syn Gas/ Producer Gas- <b>B</b> VOCs- <b>C</b>	Up to <b>100 - F1</b> Up to <b>250 - F2</b> Up to <b>700 - F3</b> Up to <b>1500 - F4</b> Up to <b>2500 - F5</b> Up to <b>5000 - F6</b> Others - <b>F7</b>	Stainless Steel - <b>S</b> Cast Iron - <b>C</b>	SS-316 - <b>M1</b> Carbon Steel- <b>M5</b> Cast Iron - <b>M7</b>	7 m - <b>H1</b> 9 m - <b>H2</b> 12 m- <b>H3</b> Other- <b>HX</b>	Direct Ignited- <b>PB</b> Pilot Ignited- <b>PS</b>

Example for Model Selection



[www.combustionindia.com](http://www.combustionindia.com)

### Enquire

Please include the following specifications in your inquiry:

- Project Details
- Gas Composition
- Flow rate
- Temperature
- Pressure
- Required Emission Regulation
- Required in Enclosed Flare form, Compact flare form or Open and Elevated flare form

### Reach out to us

Combustion Research Associates  
 Address: A-52, Sector- 83, Noida (Delhi NCR), India  
 Email: [info@combustionindia.com](mailto:info@combustionindia.com)

T: +91-120-4156787  
 M: +91-8506009433