

## GAS FLARE FOR BIOGAS

Biogas  
Plant

### GF and GFC Biogas combustion flare

Our flares are all designed to specific needs, but below you will get an idea, of our range. GF is an open flare design, and GFC is a closed design. On a GFC the flame will be invisible > 90% of the time. Both models can be used for biogas with 65-97% CH<sub>4</sub>. The capacity will correspond to the containment of CH<sub>4</sub>.

WWTP

Waste  
Landfill



GF Design



GFC Design

The flare consists of a burner installed at the bottom of the burning tube. The tube will be elevated from ground level, depending on the specific design. For both solutions there is a flame shield around the combustion head. GFC flame shield is insulated inside, with ceramic fiber 2x25 mm.

The automatic ignition system, which is very reliable and easy to understand, is mounted at side and at the bottom of the structure, together with the control panel. Gas train, flame arrestor, valves etc. are installed in the structure (GF model) or just outside bottom structure (GFC model). Programmed restart, UV sensor, Remote start-signal etc.

Beneath find some of our designs:

Power supply:		400 V 50 Hz	Auxiliary circuits Power:		230 V / 24 V / 50 Hz	Design Codes:		EU
GF:45-65%/+95% Methane	[Nm <sup>3</sup> /h] 45-65%/+99%	Nom press. drop* [mbar] (approx.)	Diameter [mm]	Height [m]	Mat:			
GF50	75	<10	Project design.	Project Spec.	AISI 316/304*			
GF150	650	<10	-	-				
GF150-200	1150/690	<25	-	-				
GF350-400	4000/2400	<10	-	-				
GFC: 45-65%/+95% Methane	[Nm <sup>3</sup> /h] 45-65%/+99%	Nom press. drop* [mbar] (approx.)	Diameter Flame tube [mm]	Height [m]	AISI 316 /304*			
GFC80-150	200/120	<15		6				
GFC150-200	1000/600	<15		7				
GFC200-250	1500/900	<15	1900	9				
GFC200-250	2000/1200	<15	2100	10				
GFC250-250	2500/1500	<15	2300	11				
GFC350-250	3000/1800	<15	2400	12				

\* Subject to change/vary for each project.