

LANDFILL GAS

OPEN FLARE UNITS

The **GFE range** is a compact range of elevated landfill gas flares for small to medium sized landfill sites. The high temperature stainless steel flare tip together with the condensate knockout pot, gas fan and control panel are all mounted on a compact robust galvanised chassis all pre-assembled for immediate use. Ideally suited for temporary pumping trials or permanent installation the **GFE range** provides an economical, safe and efficient gas control flare.

Model Specification		GFE-100	GFE-300	GFE-500	GFE-800	GFE-1000	GFE-1500	GFE-2500
Landfill gas flow rate	Nm ³ h ⁻¹	20-100	60-300	120-600	160-800	200-1000	300-1500	500-2500
Max power consumption	kWe	1,5	5,5	11	18,5	15	18,5	22
Booster max pressure	mbar	100	150	150	175	164	185	165
Combustion range CH ₄	% vol	20-60 %	20-60 %	20-60 %	20-60 %	20-60 %	20-60 %	20-60 %
Flame temperature*	°C	>850 °C	>850 °C	>850 °C	>850 °C	>850 °C	>850 °C	>850 °C
Noise level	dB(A)	<80	<80	85	88	88	91	91

Other options are available upon request.

We reserve the right to alter specification without prior notice

General Specifications :

PLC control, Enclosure to IP55
 Galvanized condensate knockout pot
 Centrifugal blower, in mild or stainless steel
 Motor ATEX compliant
 Direct drive or Belt drive
 Star-Delta or soft start starting
 "Motor trip" automatic cut out function onto the control panel
 Pneumatic or electric operated burner supply safety shut-off valve
 Deflagration ATEX flame arrester
 High suction switch
 Manual gas/air mixer combustion control
 High energy spark ignition
 Flame monitoring & UV sensor

Chassis & Pipe work :

High temp stainless steel burner & burner shroud
 Gas sampling and instrument ports
 Welded to EN287-8
 All pipe work is hot dip galvanised to BS EN ISO 1461 or/and painted

Options :

SS condensate knockout pot & PP or SS demister element
 Pumped drainage system, Trace heating and insulation
 Stainless steel Pipe work
 Gas fan inlet ATEX flame arrester
 Flow indicator manometer, local digital display
 Thermal mass flow meter, local digital display
 Dual point thermocouple, temperature monitoring and display
 Inlet gas analysis system Automatic temp controlling thermocouple
 PLC based data logging & Telemetry
 Extended shroud to hide visible flame
 Ceramic fibre insulation
 Trailer and Roll on off mounted models
 Other options available to suit customer requirement
 Other capacities to 3000 Nm³ h⁻¹



*The temperature is dependent on the gas quality and section of flame monitored.

Should the gas quality be <25% then the temperature may be less than 850°C & temperatures up to 1000°C is possible.

LANDFILL GAS

OPEN FLARE UNITS

Installations & Features



GFE-100



**Flame Arrester
electric operated safety shut-off valve**



GFE-150



GFE-400



Control Panel c/w Flow & Temp digital display