



## BIOGAS FLARE

### Elevated Flame – Mod. EL

#### DESCRIPTION

The flare consist of a burner installed at elevated position, equipped with a high-energy ignition Pilot and a flame detection system via Thermocouple  
The combustion air is natural conveyed from the bottom part of flame shield and the combustion temperature will be max. di 800 °C.



The height of this flare are calculated according to the heat radiation released from burning to the ground and that will ensure an adequate level of protection to people and equipments that are within range of the flare.

This type of Flare develops a luminous flame which extends beyond the top part, so the combustion temperature and emissions monitoring are difficult to control.

The ignition system is automatic type, operated by the electrical panel installed of the flare's bottom side and initially involves the pilot's ignition and subsequently the opening of the main Biogas valve.

The gas train and all accessories such as valves, flame arrestor, pressure gauge and other, are installed at ground level.



#### SITE UTILITIES

Power supply	Volt	400
Auxiliary circuits Power	Volt	230-24
Frequency	Hz	50
Electrical Insulation (Local Panel)	Gr.	IP54
Electrical Protection (Field equipments)	Gr.	IP65
Instrument Air Type	/	Dry, without oil
Instrument Air Dew point	°C	-25
Instrument Air ( Wet, without Oil)	bar <sub>g</sub>	6



## DESIGN CODES

- ✓ Direttiva Macchine 2006/42/CE
- ✓ D.Lgs.81/2008 e s.m.i.
- ✓ CEI EN 61349-1
- ✓ EN 60079-1
- ✓ Direttiva 2014/34/UE
- ✓ Direttiva 2006/95/CE
- ✓ IEC 60038
- ✓ IEC/EN 60204
- ✓ CEI EN 60079-10-1:2016 Classificazione luoghi ATEX gas

## SUPPLIER DATA

Model		<b>EL</b>
Type		Elevated Flame
Total Height (from ground)	ml.	4 > 12
Type of support		Selfstanding
Gas Pipe Material		Aisi 304
Wind Shield		Aisi304/309
Burner Material		Aisi 316/310
Air Damper Material		N.A.
Inlet Flange		ANSI B16.5 - 150#
Flame Detector		Thermocouple Typ. K
Internal Insulation		N.A.
External Insulation (Only in the Top parts lg. 1 ml.)		N.A.

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