

Tesi's High Energy Ignition System can be used to directly ignite oil and gas burners. As a Class 3 Igniter, the output energy of up to 24 Joules provides powerful sparks with a rate of 6 sparks/sec. as a standard.

The circuit is provided with a regulator on the main inlet so that the sparks rate can be finely adjusted (by TESI accordingly to customer request). This circuit is also able to monitor :

- Transformer temperature and prevent any damage due to over temperature;
- Transformer max current, capacitor max voltage, spark down rate(<2);
- Max working time.

Tesi's High Energy system can be utilized in both Safe and Hazardous areas. The main components for both applications consist of a Power Pack unit installed in an enclosure box suitable for wall mounting, a High Energy rod complete with a replaceable spark tip and an high voltage connecting cable. Standard production consists of a rigid ignition rod, but a flexible configuration can be realized for tilting tangential applications.

- **High reliability**

The powerful sparks ensure ignition in all conditions and environments with no risk of failure due to contaminants or humidity.

- **Low maintenance**

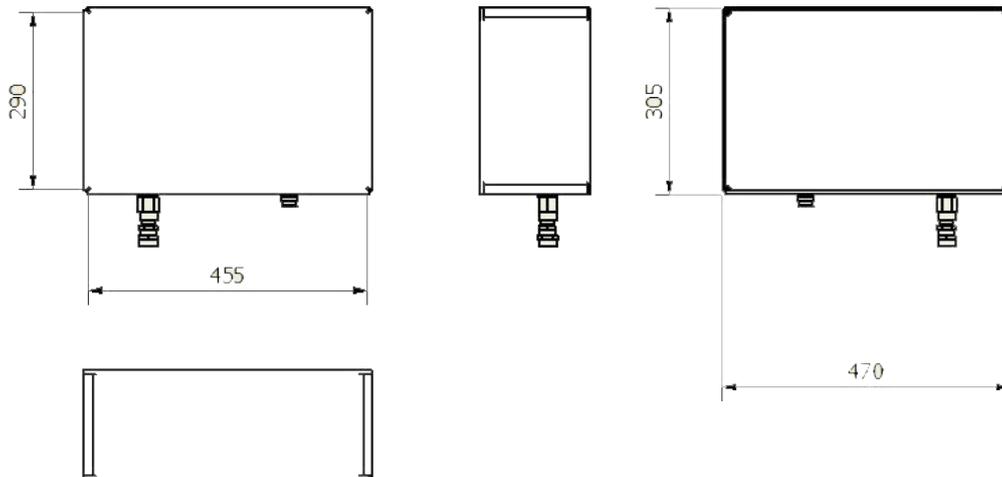
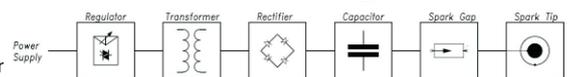
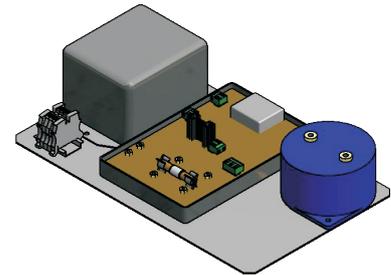
Self-cleaning spark tips guarantee successful ignition. In fact the high power of the spark cleans the surface of the tip during every ignition.

- **Easy & Fast maintenance**

Spark tips screw onto the end of the rod can be replaced quite easily, reconditioning the system very quickly and reducing maintenance costs.

- **Accessories & spare parts**

A wide range of accessories and spare parts on stock can be quickly supplied and allows for customization of the systems according to customer specification



TECHNICAL DATA

INPUT VOLTAGE:	115 or 230V 50 (60 Hz on demand)	
INPUT CURRENT:	MAX 5 A	RMS CURRENT ~3.15 A (at 6 Sp/Sec)
INPUT POWER:	According Sparks Rate	550W (at 6 Sp/Sec)
OUTPUT VOLTAGE:	1400 V	+/- 10%
OUTPUT ENERGY:	24.5 J	Each Spark +/- 10%
WORKING TIME:	Not for continuous service According to Sparks Rate	Max 8 minutes ON/Min 16 minutes OFF/Max 3 subsequent sequences (at 6 Sp/Sec)
SPARK FREQUENCY:	6 spark/second (as standard) adjustable on request	
WORKING TEMPERATURE:	-5 ÷ + 60°C	On request -30 ÷ + 60°C
PROTECTION GRADE:	IP66	On request other options

DATA SUBJECT TO CHANGE WITHOUT NOTICE

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