

Tesi High Energy Ignition Systems are suitable to light directly oil and gas burners. The main components are 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.

TESI XEC10 is one of the heavy duty high energy power units featuring a considerably higher power compared to standard power units, and able to **ignite diesel and heavy oil directly**.

XEC10 TECHNICAL DATA

INPUT VOLTAGE	115 or 230 Vac 50 Hz (60 Hz on request)	
INPUT CURRENT	max 10 A	RMS current ~ 4 A (at 24 sparks/sec)
INPUT POWER	according to spark rate	750 W (at 24 sparks/sec)
OUTPUT VOLTAGE	1400 V +/- 10%	
OUTPUT ENERGY	10 J each spark +/- 10%	
DUTY CYCLE (60°C)	according to spark rate	max 1 minute ON / min 2 minutes OFF max 3 subsequent sequences (at 24 sparks/sec)
MEAN SPARK FREQUENCY	24 sparks / second (adjustable on request)	
OPERATING TEMPERATURE	-20°C ÷ +60°C	-30°C * ÷ +60°C on request
PROTECTION GRADE	IP66	other options on request

* special execution

data subject to change without notice

HIGH ENERGY IGNITION SYSTEMS FEATURES

High Energy ignition systems assure **easy ignition in any condition**, providing the following advantages:

- they **can replace traditional air/gas pilot torches**, providing the most reliable and cost-effective fuel ignition whether gas, light oil, diesel or heavy oil is used
- they are **not affected by humidity or liquids** (100% waterproof) or by dirty deposits left onto electrodes by burning processes
- they are **maintenance free**, offering **lower ignition costs** and high adaptability in all kind of burners, even replacing old traditional ignition devices
- they are safer for end users, with no risks of electric shocks.

Tesi ignition systems feature a high flexibility of applications, both in safe and hazardous areas.

According to the areas where ignition systems shall be installed, Tesi can provide power units in different types of enclosures, fit to **potentially explosive atmospheres (ATEX classified)**:



Heavy Duty power unit in certified ATEX enclosures



Heavy Duty power unit in Safe Area enclosure