

# Pyrogen EXA Stand-Alone Kit

*A complete pre-engineered fire suppression kit –  
autonomous detection and operation*

(Protection of Electrical Cabinets & Enclosures; small to medium Engine & Machinery Spaces; enclosed Machinery & Structural Compartments)

## **1. System Description**

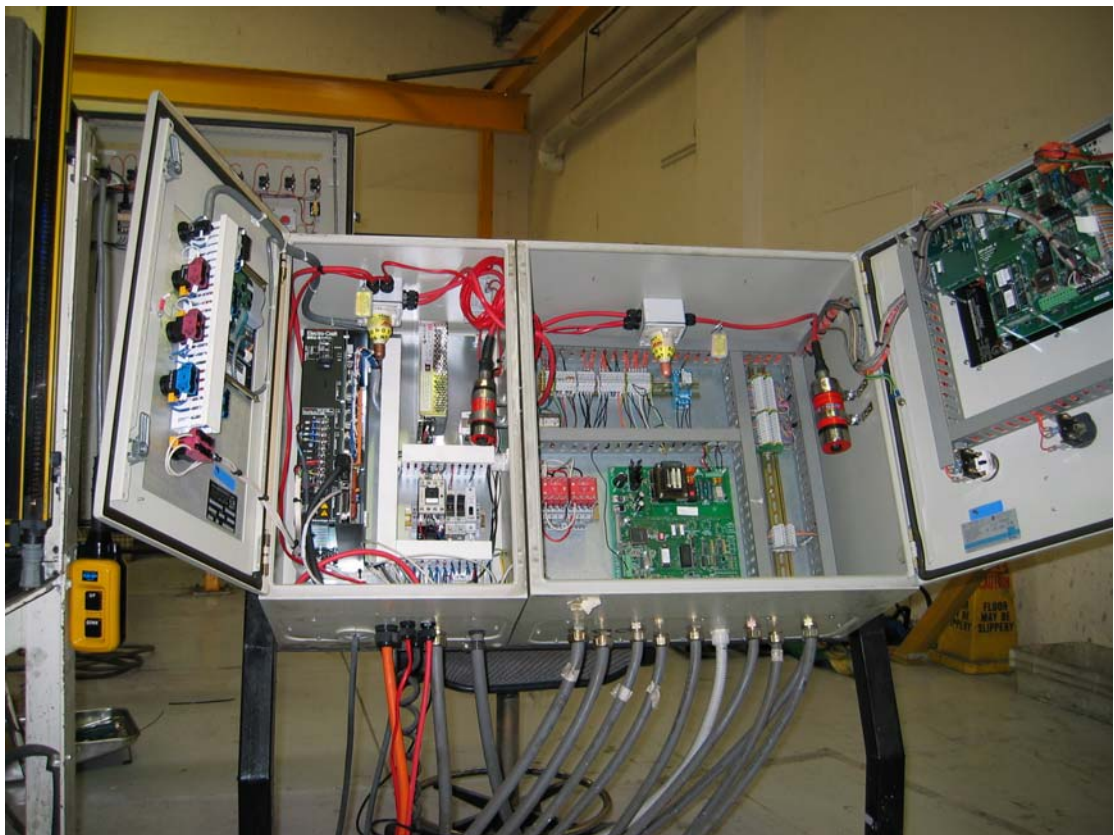
Pyrogen Stand-Alone Kit is a complete fire suppression system specifically designed as a low cost and simple solution to a difficult task of protecting electrical and other small to medium electrical/industrial/marine enclosures from ravages of fire.

Pyrogen Stand-Alone Kit consists of a Pyrogen EXA extinguishing module and an autonomous thermal detection and activation device TAD, which detects fire at a rated temperature and activates Pyrogen EXA module.

TAD requires no external power supply or battery.

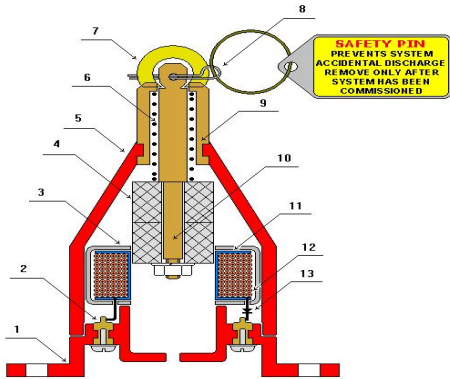
Pyrogen Stand-Alone Kit features the following unique characteristics:

- rapid system discharge – instantaneous extinguishing action, low agent consumption, minimum fire damage;
- non-pressurised self-contained extinguishing modules;
- installed inside the engine compartment, no piping;
- no liquids, no gases, no pressure gauges, no leakage, no modules weighting;
- ambient operation temperature range up to 95°C;
- resistance to vibration, high humidity, corrosive and salty atmospheres;
- easy installation;
- minimal maintenance (only electrical monitoring for an electrical system where installed);



## 2. TAD thermal detection and activation device

A unique TAD detection and activation device is designed to automatically detect the fire at either 72°C or 110°C and generate an electromagnetic impulse to activate Pyrogen EXA aerosol modules.



The main element of the T-start is a heat-sensitive lock made of a special memory-shaped alloy.

In a fire situation when the ambient temperature near the heat-sensitive lock reaches its rated value of 72°C or 110°C, the lock operates and releases a spring that moves a rod with an attached magnet through an induction electromagnetic coil generating an electric impulse. The generated electric impulse sets off the Pyrogen EXA module(s).

Depending on the system requirements, TAD can be a sole detection and activation device (simple stand alone Pyrogen-TAD fire suppression system) or form an integral component of a comprehensive system including a fire panel.

Pyrogen EXA modular system is a drop-in low cost & low maintenance solution to a difficult task of protecting electrical enclosures, equipment and machinery from fires.

