

Could Your Business Survive?

Following a serious fire incident:

ONLY 28% OF BUSINESSES RECOVER

29% CLOSE WITHIN 3 YEARS

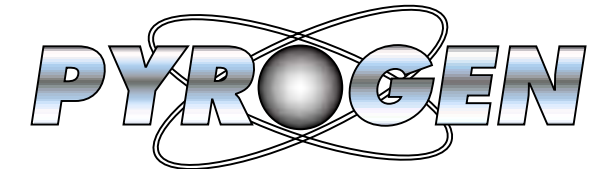
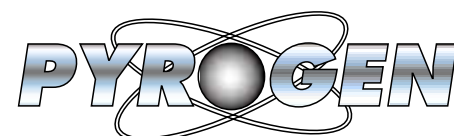
43% NEVER RE-OPEN



Industry Sectors for PyroRack

- Telecommunications Cabinets
- Banking Computer Rooms
- CCTV Equipment Racks
- Cabinet Manufacturers
- IT Networks
- Website Servers and Hosting Equipment
- Public Address System Racks
- and many more...

In line with a continuous programme of product development, the company reserves the right to modify or update specifications without notice. It should therefore be noted that the exact specification may vary from time to time. The information herein is to assist a person of technical background and training in determining whether this product is suitable for a given application. This information does not purport to cover all the details or variations in the equipment described, nor does it provide for every possible contingency to be met in connection with installation, operation and maintenance. We request that customers inspect and test our products before use and satisfy themselves as to the contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability, or fitness for a particular purpose.



PyroRack



Features:

- Fully self contained automatic fire detection and extinguishing system
- 19" rack mounted
- 2U in height
- Only 300mm in depth*
- Coincidence detection
- 1st stage volt free contacts
- 2nd stage volt free contacts
- Fault volt free contacts
- Selectable coincidence or single activation mode
- Built in 24hr battery back up
- RS232 port
- Event memory log
- External connections for coverage to additional areas
- LCD remote programming and status unit

Distributed by

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General Description

Representing the future in cabinet protection the PyroRack is a self contained automatic fire extinguishing system, which can be used in many industry sectors.

Designed to be housed in 19" racking systems for the protection of delicate electronic equipment, the PyroRack is fully capable of detecting a fire using single or coincidence detection and responding by extinguishing the fire in less than 10 seconds of detection. Signals can also be sent to other equipment via VFCC or RS232 to inform of the units status and to key personnel for immediate investigation.

By siting the PyroRack at the top of each equipment rack the individual piece of equipment is being protected right at the heart of the potential risk, therefore more accurately pinpointing the fire at a very early stage and eliminating the need to discharge large costly amounts of fire suppressant.

Technical Specification

Input Voltage	- 230v ac or 110v ac - Via single fused IEC socket
Output Voltage	- As input voltage via 1 x 10A IEC female socket 24v dc output fused @ 500mA
Output Switching	- 1st stage alarm contacts - 2nd stage alarm contacts - Fault contacts
Remote Outputs	- Extinguishant output (for additional cylinders or mag units) - Detection Area 1 + 2 (for coverage in additional areas)
Remote Inputs	- Extinguishant release - Hold Circuit - Abort Circuit - Pressure Monitor Circuit
Data Transmission	- RS232 (for remote communications)
Back up	- 2 x 1.2ah SLAB giving 24hr standby
Operating Temperature	- 0 to +50 deg C
Operating Humidity	- to 95% (non-condensing)
Power Supply Rating	- 750mA max @ 28v dc (350mA cont)
Dimensions	- 19" (485mm) width - 2U (88mm) height - 300mm deep*
Engineering Functions	- Extinguishant released on single or coincidence activation - Delay timer settings - Extinguishant released signal status
Remote Status/Programmer	- LCD unit which enables detailed fault analysis along with displaying normal running status. Also enables engineer to set time and date and view event log.
Extinguishant Type	- Pyrogen®
Detection Type Standard	- 1 x Optical Detector, 1 x Ionisation Detector
Options	- Heat Detector
PART NUMBERS	PRODUCT
VP/RED1	Pyrogen® (1m ³)
VP/RED2	Pyrogen® (2m ³)
VP/RED3	Pyrogen® (3m ³)
VP/RED4	Pyrogen® (4m ³)

*Does not include for plugs and discharge deflector (overall approximately 340mm).

PyroRack

Technical Specification

Environmental	- Zero Ozone Depleting Potential - Zero Global Warming Potential - Zero Atmospheric Lifetime (yrs).
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CLASSIFICATIONS

Suitable for fire:	Class A – Combustible Solids Class B – Flammable Liquids Class C – Flammable Gases Class E – Electrically Energised Fire
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Mechanism suppression	- Chemical
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Chemical Composition	- KNO3 62.3%, Plasticised Nitrocellulose 12.7% Carbon 9%, Admixtures 16%
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Firing Mechanism	- Electrical - ≤ 400mA @ 6/12v for 10mS - Thermal - ≤ 175°C (Thermal Cord)
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AEROSOL CHARACTERISTICS

Potassium Carbonates, solid:	~7g/m ³
Nitrogen Gas:	~70% by vol
Carbon Dioxide Gas:	~1.2% by vol
Carbon Monoxide Gas:	~0.4% by vol
Nitrogen Oxides, Gas:	40 – 100 ppm
Ammonia Gas:	~0.075% by vol
Temp at Nozzle + 500mm	≤ 75°C
Oxygen (level):	17% to 20% typical
Holding Time:	≤ 60 mins

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PYROGEN® - GENERAL DESCRIPTION

The principle of extinguishing action employed by Pyrogen® is unique - a special solid chemical, when electrically or thermally ignited, produces combustion products - micron size dry chemical particles and gases. Dry chemical particles, (mainly potassium carbonates) and gaseous mixture, (mainly carbon dioxide, nitrogen and water vapour), mix together into a uniform fire extinguishing aerosol. Before being released into a protected area, the hot aerosol propels itself through a unique solid chemical coolant, which decomposes absorbing huge amounts of heat, thus ensuring flameless discharge uniform distribution the cool aerosol within the area.

The high rate of aerosol discharge ensures a tremendous knockdown effect. Micron sized aerosol particles exhibit gas like three dimensional qualities that allow the agent to rapidly distribute throughout the enclosure and reach even the most concealed and shielded locations. Homogeneous distribution is achieved in a matter of seconds, while long holding times all prevent fire re-ignition.

