

PAFSS[®]

PNEUMATICALLY
ACTUATED FIRE SUPPRESSION
SYSTEMS



Fume Cupboards

Automatic Fixed Fire Extinguishing Systems for fume cupboards

Issue 1

JacTone
CONFIDENCE through QUALITY

• U.K. MANUFACTURER • 

Fume Cupboards



Why choose PAFSS

There are many situations where dealing with a fire at source will both minimise the damage of valuable assets by extinguishing the fire early and before it more fully develops, enabling a quicker recovery of operations.

Laboratory fume cupboards can present a particular problem where multiple users and a wide range of chemicals and processes increase the risk of fire. The range of Jactone PAFSS can offer you the protection required, building on many years of experience and technical knowledge acquired in the fire industry.

Jactone PAFSS can be tailored to customer requirements, but the following common features apply:

- ✓ Simple to install and cost effective to maintain.
- ✓ Superbly engineered specialist valves and pressure vessel(s) containing an appropriately selected extinguishing agent.
- ✓ Linear heat and flame detection allows for an unlimited number of detection points.
- ✓ Flexible detection tubing can be located adjacent to the identified fire risk areas, resulting in fast action.
- ✓ Detection tube remains unaffected by dirt, dust, debris and oil.
- ✓ Failsafe by design principles and simplicity.
- ✓ Totally self-contained. No need for any external energy or power supply for detection or actuation and remaining operational during power interruption.
- ✓ Reliable discharge – Powder systems are set to 15 bar working pressure.
- ✓ All discharge pipework is stainless steel – vital in potentially corrosive laboratory environments.
- ✓ Reliable, vibration resistant push-fit detection tube fittings – for enhanced system leak tightness.

Unique Features Include:

- ✓ Innovative Technology
- ✓ Compact Valves
- ✓ Integrated Functions
 - Isolation Valves
 - Reed Switches
 - Valve position monitoring
 - Discharge confirmation
- ✓ System Monitoring
 - Low pressure
 - Discharge confirmation
- ✓ Reduced possibility of damage and leakage





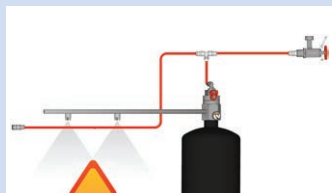
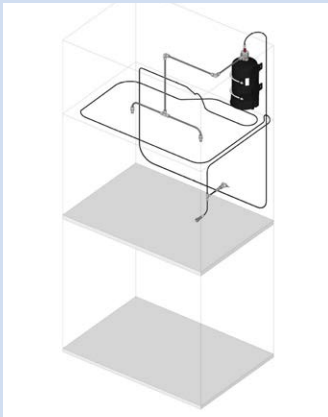
Fume Cupboards

Principles of Operation

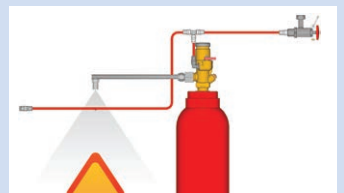
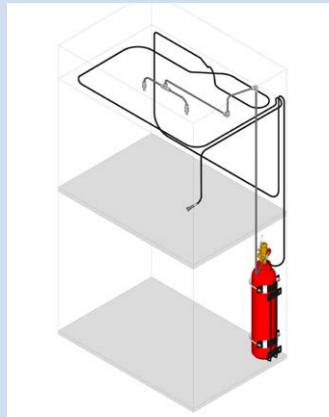
The heart of any Jactone fume cupboard PAFSS is the special detection tubing which acts as a linear heat and flame detector, allowing for an unlimited number of detection points and fast action. The pressurised tubing is completely flexible and tough enough to withstand the harshest of conditions. Upon flame or heat impingement caused by a fire, the tube ruptures at the hot spot and by depressurisation the cylinder valve is activated to open the cylinder valve and operate the suppression system. The agent is then released through separate (Indirect) pipework and nozzles which are aiming at the hazard area. Indirect systems are available in both low pressure and high pressure format, depending on the most appropriate extinguishant selected.



High Level Indirect Powder System



Low Level Indirect CO2 System



Customer Options


- ✓ Extinguishant – CO2 or Dry Chemical Powder (ABC, BC grade, Monnex)
- ✓ Manual release – You can opt for operator activation via means of an additional manual actuator valve. In all cases this supplements automatic tube detection and actuation.
- ✓ Pressure switches / Gauges to provide signals for system health and system discharge confirmation. (Note – CO2 systems can only be provided with system discharge confirmation via integral valve switch. System pressure monitoring for CO2 systems is not possible).
- ✓ Jactone PAFSS can be used to protect BENCH or WALK-IN fume cupboards.



Jactone PAFSS complies with the requirements of the Pressure Equipment Directive (P.E.D. - 97/23/EC) and consequently carries the CE mark.

PAFSS®

PNEUMATICALLY ACTUATED FIRE SUPPRESSION SYSTEMS

- > Jactone PAFSS is manufactured in the UK 
- > PAFSS - On guard 24 hours a day, 365 days a year



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