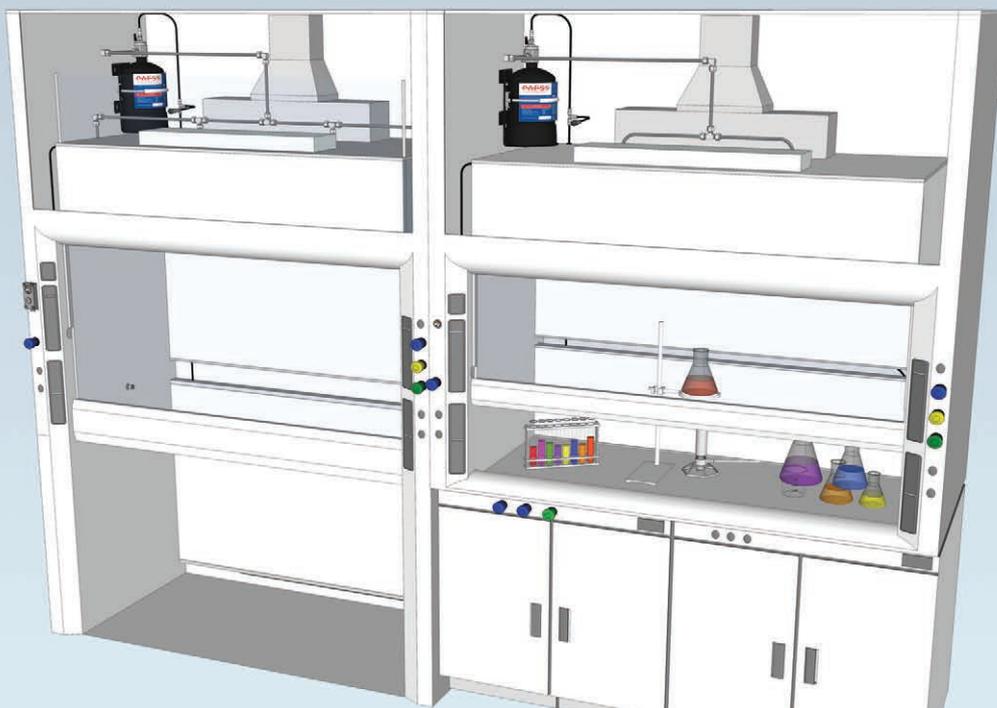


# PAFSS<sup>®</sup>

PNEUMATICALLY ACTUATED FIRE SUPPRESSION SYSTEMS



## Laboratory Fume Cupboard / Hood Fire Protection

Automatic Fixed  
Fire Suppression Systems for  
Laboratory Fume Cupboards / Hoods

- › [www.abcfire.ie](http://www.abcfire.ie)
- › Donegal: 074 9156 300 | Derry: 028 7135 8134 | Belfast: 028 9099 6708 | Dublin: 01 9696 300
- › [info@abcfire.ie](mailto:info@abcfire.ie)



# Why choose PAFSS®

## THE PROBLEM

Fume cupboards, also known as 'fume hoods' or 'fume cabinets' are commonplace in industry, pharmaceutical research facilities and educational establishments. On such sites there can be multiple users, a wide range of chemicals and different processes that can considerably increase the risk of a fire.

Due to the semi-enclosed nature of fume cupboards, fires can be difficult to identify, which often means that it is too late for users to take action as the fire will have developed. Typically fume cupboards are found in multiple numbers in close proximity which means that a fire that originates in a single piece of equipment can spread to other adjacent equipment.

The results can be devastating, resulting in the risk of lost research, costs, downtime and danger to staff or students.

## THE PAFSS SOLUTION

Fume cupboards require a specialist fire suppression system that is capable of detecting and extinguishing a fire situation within the fume cupboard workspace, dealing with the fire event locally before it can more fully develop.

PAFSS systems are specifically designed to detect and discharge inside the fume cupboard at the heart of the fire, extinguishing quickly and preventing any spread or escalation of the fire to neighbouring fume cupboards and the wider building. This can significantly reduce the risk of injury to personnel and losses caused by equipment down time and operational disruption.

PAFSS fire suppression systems offer peace of mind for customers looking to protect their assets and staff from the risk of fire.

**On guard 24 hours a day, 365 days a year**



## PAFSS FEATURES

Choosing PAFSS has many advantages, including :

- › Simple to install and maintain. Easily fitted to new or existing equipment.
- › Fast, automatic detection and extinguishing.
- › Linear heat and flame detection tube, allowing for an unlimited number of detection points.
- › PAFSS detection tubing is highly reliable and resistant to many chemicals (full details on request).
- › Flexible detection tubing can be located adjacent to the identified risk areas, providing fast effective detection.
- › Stainless steel discharge pipework and nozzles. Vital in potentially corrosive laboratory environments.
- › Requires no power supply for detection or actuation, remaining operational during power interruption.
- › Can be integrated into the buildings fire alarm system.
- › Superbly engineered specialist valves & pressure vessels.



## HOW PAFSS WORKS

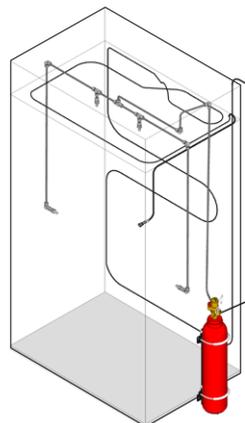
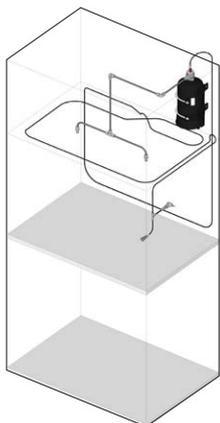


PAFSS fire suppression systems require no power for detection or operation. PAFSS fire detection tubing is installed throughout the risk area in the workspace, providing fast and effective detection of a fire. Upon flame impingement or high ambient temperature, the pressurised detection tube ruptures with a burst at the hottest point. The extinguishing agent is then discharged via the stainless steel pipework and nozzles which are aimed at the hazard area inside the workspace.

Indirect PAFSS systems are available as standard with ABC dry powder and CO2 extinguishants. Other extinguishants can be made available for specialist applications.

### Bench Type Fume Cupboard / Hood

### Walk-In Type Fume Cupboard / Hood



Cylinder mounting location and extinguishant selection is installation dependent.

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**Simple to install and maintain**



**Technical expertise, training and support**



**Fully certified system, recognised by leading insurance companies**

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