

MODEL:  
**WSC600**  
**WSC900**

**PYRO**<sup>TM</sup>  
**CLOUD**

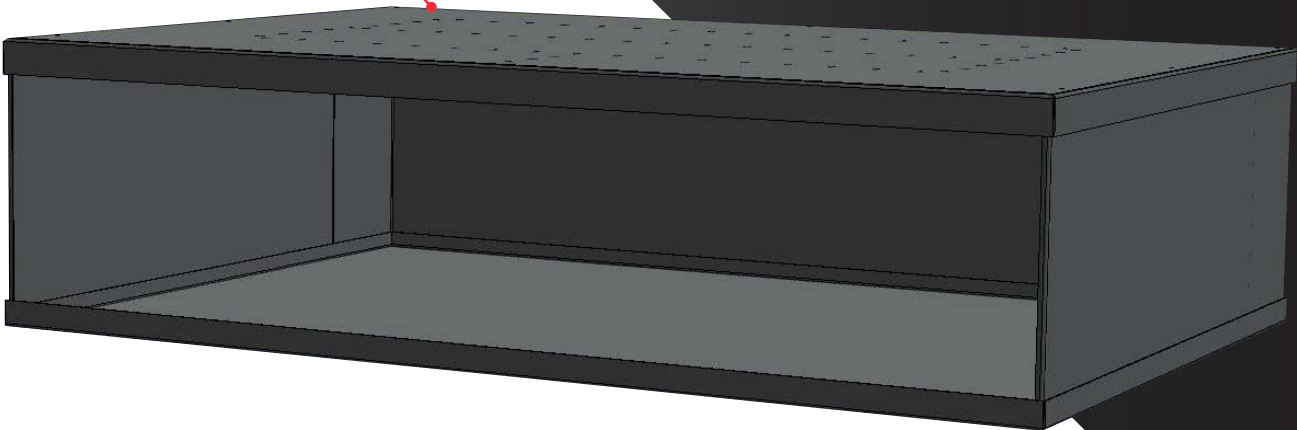
**FIRE SUPPRESSION**

from **FIRECHIEF**<sup>®</sup>



## WHITE SPIRIT SHELF UNIT

WITH PYROCLOUD  
FIRE SUPPRESSION



**CLEAN • EASY TO INSTALL • MAINTENANCE FREE**

 +44 (0) 330 999 0019

 [sales@firechiefglobal.com](mailto:sales@firechiefglobal.com)

 [firechiefglobal.com](http://firechiefglobal.com)



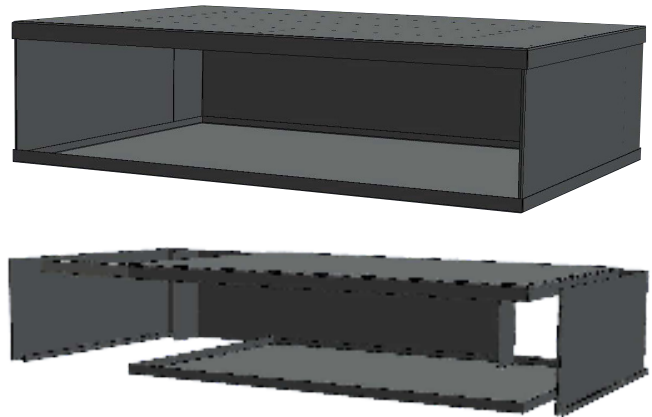
# WHITE SPIRIT SHELF UNIT

## WHAT IS THE NEED?

- The need is for fire suppression units for white spirit shelving units commonly found in a retail DIY/Builders Merchant store environments
- After testing a conventional sprinkler system in a controlled environment, it was deemed to be ineffective when extinguishing a white spirit based fire due to the large volume of Class B (flammable liquid) risk and the shelf structure which prevented water from reaching the seat of the fire
- Following further testing, it was identified that a shelf based fire suppression solution was best suited to meet the risk
- The greatest risk of ignition is from arson with flammable material being introduced to the shelf and then ignited or alternatively a bottle of white spirit being emptied on the shelf and then ignited
- Once the fire has melted the plastic bottle containing white spirit, the risk of fire spread increases dramatically with ignited liquid being sprayed under pressure outside of the shelving, swiftly propagating the fire

## THE SOLUTION

- The solution is a steel cabinet in two size variants to suit 600mm and 900mm depth shelving
- A sealed base to the cabinet is designed to contain any spilt liquid
- Available in galvanised steel finish or powder-coated to match existing shelving
- The fire detection and suppression system is supplied installed into the lid of the unit for easy installation by the store team
- A PyroCloud condensed aerosol unit is installed within the lid
- Condensed aerosol fire suppression technology is proven to be extremely effective in extinguishing Class A, B, C and F fires
- Fire detection is via a Thermal Fuse installed into the lid of the unit which activates automatically on the presence of fire or heat
- The cabinet is supplied in a flat pack format for easy assembly in store



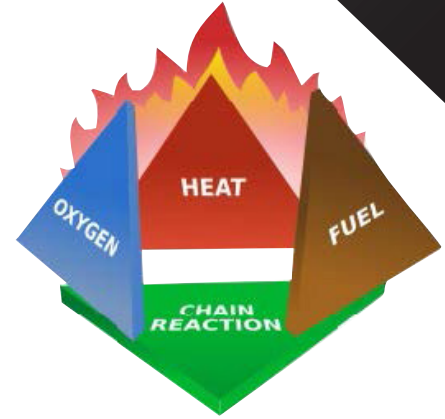
# HOW IT WORKS

## How PyroCloud fire suppression works

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PyroCloud condensed aerosol generators consist of a solid aerosol forming compound in a non-pressurized canister which aerosolizes finely divided solid particles: the aerosol fire extinguishing agent. The aerosol is self-generated by a combustion process of the solid aerosol-forming compound, activated by an activation device, also known as the starter.

The active substances of the PyroCloud aerosol are solid micro particles that fill the compartment completely and attack the combustion process of a fire at a chemical level. As a result, the flames are instantly knocked down and the energy removed from the fire. Unlike many other extinguishing agents, PyroCloud aerosol interferes with the chain reaction in the fire, leaving oxygen levels intact. PyroCloud aerosol is an extinguishing medium of finely divided solid particles (mainly potassium), with a typical diameter of approx. 2 microns. When introduced into the flaming region of a fire, the aerosol reacts with the free radicals produced during combustion (hydrogen, oxygen and hydroxyls) resulting in extinguishment of the fire. The small aerosol particles provide a large surface area for capturing these free radicals, making them effective extinguishing agents.



# THE BENEFITS

- **Fail-safe solution** utilising solid state detection and suppression technology –no reliance on stored pressure or electrical activation.
- **Clean non-toxic discharge** resulting in minimal collateral damage to surrounding area following activation. This minimises risk of stock damage on shelves nearby and human respiratory issues caused by conventional firefighting powders.
- **BSI Witnessed** Test Reports available
- **No maintenance** required by external contractors eliminating cost and unnecessary disruption.
- **Reduced height of shelving** ensures current stock profile can be maintained.
- **15 year life span** of the certified effective life of the fire extinguishing device.
- **Easy store implementation** due to flat pack 'interlocking' cabinet design.
- **Sump capacity** of up to 30 litres of spilt liquid contained within the base to prevent uncontrolled spread of risk.
- **Ecologically safe** and environmentally friendly
- **Harmless to humans and animals** and does not deplete oxygen levels



# SPECIFICATIONS

- Cabinet body: 1.5mm mild steel sheet
- Cabinet finish: galvanised or powder coated (to be specified)
- Suppression unit: PyroCloud Generator Model 240B
- Detection: Thermal Fuse Activation
- Suppression technology: DSPA

MODEL	SHELF TYPE	HEIGHT	WIDTH	DEPTH
<b>WSC600</b>	Standard	325mm	1255mm	600mm
<b>WSC900</b>	Extra Depth	325mm	1255mm	900mm

# **FIRECHIEF®**

**making the world a safer place**

For more information contact: Firechief Global, 3 Lands End Way, Oakham, Rutland, UK, LE15 6RB | Imported into EU by: Sentura Group (Ireland) Ltd, Joyce House, 21-23 Holles Street, Dublin 2, Ireland



**+44 (0) 330 999 0019**



**sales@firechiefglobal.com**



**firechiefglobal.com**