

# PAFSS<sup>®</sup>

PNEUMATICALLY ACTUATED FIRE SUPPRESSION SYSTEMS



## Bus and Coach Engine Fire Protection

Automatic Fixed  
Fire Suppression Systems  
for Buses and Coaches



UNECE 107  
Certified Systems

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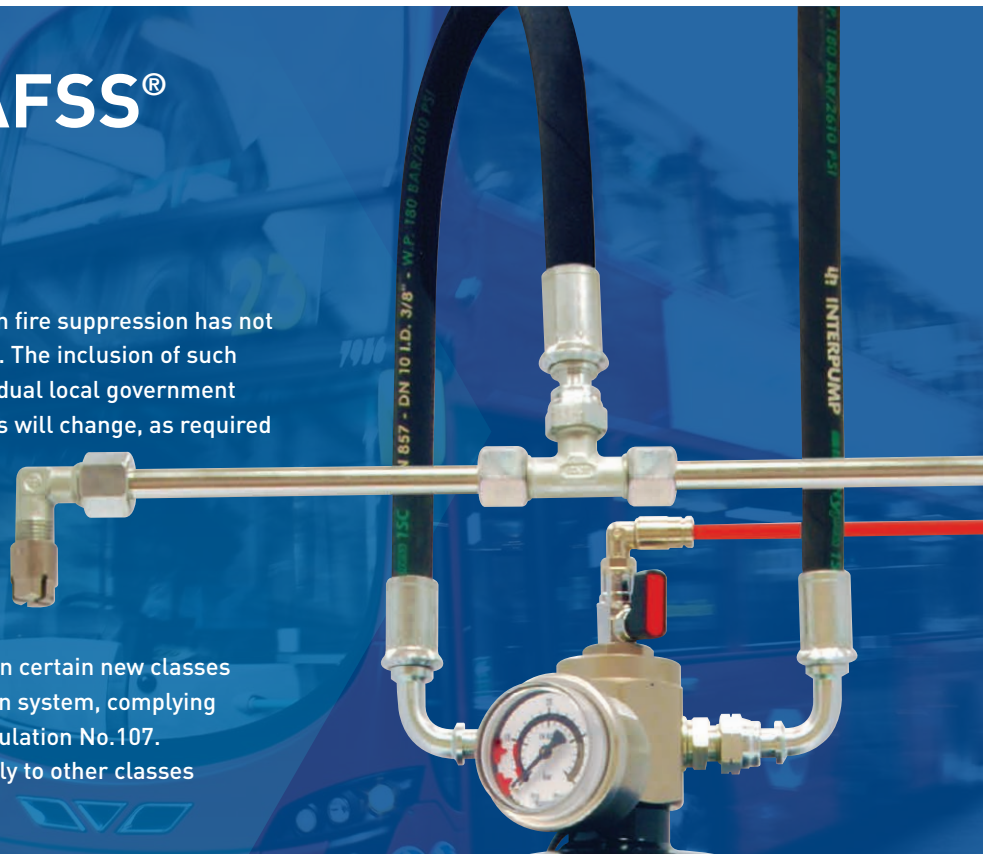


# Why choose PAFSS®

## THE PROBLEM

Historically the installation of bus and coach fire suppression has not been a widespread mandatory requirement. The inclusion of such systems has been at the discretion of individual local government transport bodies and vehicle operators. This will change, as required by a countries membership of The United Nations Economic Commission for Europe (UNECE). The UNECE sets out norms, standards and conventions, including matters relating to safety of public transport.

For this reason, it will become mandatory on certain new classes of bus and coach to install a fire suppression system, complying with the latest requirements of UNECE Regulation No.107. It is anticipated that eventually this will apply to other classes of vehicles.



## THE PAFSS SOLUTION

Our system offers peace of mind for customers looking to specify a fully tested, approved and certified solution for fire protection of buses and coaches.

PAFSS bus and coach fixed fire suppression systems have been specifically designed to protect buses and coaches in accordance with the latest editions of UNECE Regulation No.107. The latest editions of UNECE Regulation No.107 include a fire testing procedure for fire suppression systems for engine compartments of buses and coaches with four distinct fire extinguishing tests.

PAFSS bus and coach systems provide protection inside the engine compartment and discharge at the heart of the fire, extinguishing quickly and preventing the fire from spreading. This can significantly reduce the risk of injury to personnel and vehicle losses, not to mention the operational disruption.

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



## PAFSS FEATURES

Choosing PAFSS has many advantages, including :

- › Stored pressure system enables real time system health monitoring.
- › Nitrogen propellant.
- › Fire tested at the preferred bus low temperature of -40°C.
- › Specially developed pressure vessels manufactured in Jactone's state of the art pressure vessel manufacturing facility in the UK.
- › Pressure vessel volumes and pressures tuned to give effective discharge performance under extremes of vibration and low temperature.
- › Advanced two stage cylinder external corrosion protection.
- › PAFSS uses a specially developed automotive grade detection tube, with enhanced chemical resistance.
- › Temperature range of operation : -20°C to +60°C



## 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 compartment, 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 separate pipework and nozzles which are aimed at the identified risk within the compartment.

## SYSTEM CERTIFICATION AND SPECIFICATION

Approval No. : E5 107R-06009

Issued by : Swedish Transport Agency

The certification requires a Risk Assessment of each vehicle type to determine individual fire risks and correct locations / installation criteria for all equipment.



Swedish Transport Agency

Beteckning/R  
TSV 2017-479



Communication concerning approval granted of a type of a component with regard to Regulation No. 107

Approval No: E5 107R-06009

### Section I

- |                                                                 |                               |
|-----------------------------------------------------------------|-------------------------------|
| 1. Make:<br>(trade name of manufacturer)                        | Jactone                       |
| 2. Type:                                                        | Fire Suppression System PAFSS |
| 3. Means of identification of type, if marked on the component: | Type information label        |

# PAFSS<sup>®</sup>

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**UK manufacturing and assembly**



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



**Simple to install and maintain**



**Technical expertise, training and support**



**Fully certified system**

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FIRE SAFETY EQUIPMENT  
Warehouse locations in  
Auckland, Wellington,  
and Christchurch.

