

# VEHICLE

## FIRE EXTINGUISHING SYSTEM



The official distribution partner for the Americas  
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## Bus System Application

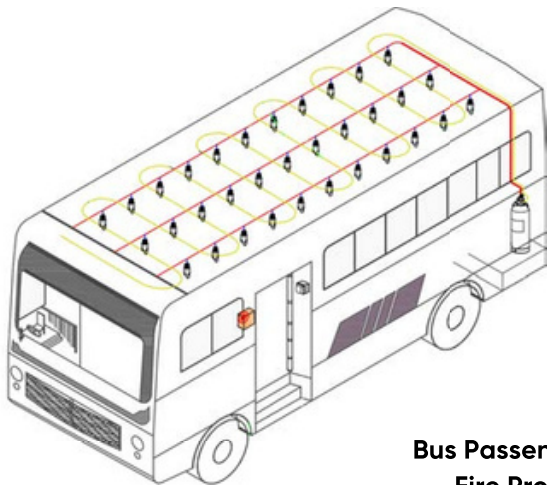
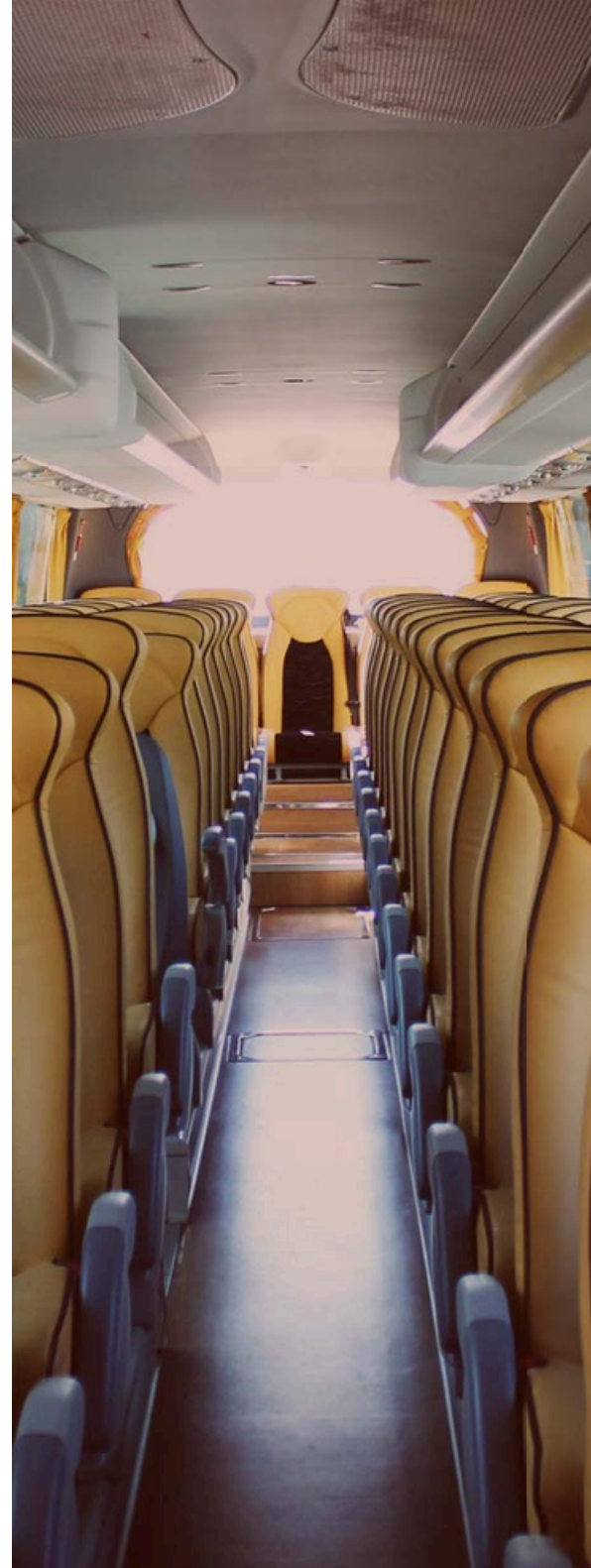
While there are credible estimates of bus fires, industry insiders say reporting is inconsistent across national fire databases. We found that motorcoach fires occur on average slightly less than daily, while school bus fires occur slightly more than daily and result in significant property damage. Deaths and injuries are rare on yellow buses, but the worst-case scenario is devastating.

Most school bus fires originate in the engine area, running gear and wheels. Nearly 70 percent of school bus fires are sparked by mechanical or electrical failures, and in some cases, an arsonist is to blame.

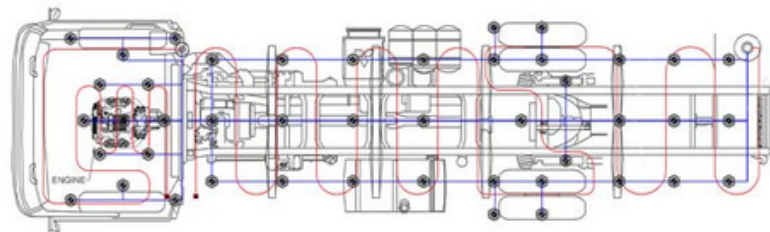
## Protected by Eco7®

Chemori Eco7® Bus Compartment Fire Protection System is mainly used to suppress any fire that breaks out in the passenger compartment of the bus. Its primary purpose is to protect any passengers that are present within the compartment area. It has 2 ways of being activated; the first is through an automatic fire detection system and the second way is through a manual release button that is located at where the driver is seated which will manually activate the system when the button is pushed. Upon activation of the system, the fire suppression agent will fog the entire compartment through the micro mist nozzles located at the top of the compartment.

The Bus Undercarriage and Tyres Fire Protection System is mainly used to protect the underside of the bus along with the tyres. In an event a fire breaks out at the undercarriage of the bus, the suppression system has to be activated manually for the entire undercarriage to be flooded with Eco7® liquid agent solution to extinguish the fire hazard.



**Bus Passenger Compartment  
Fire Protection System**

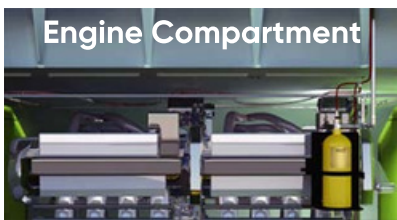


**Bus Under Carriage  
Fire Protection System**

# Why Eco7® Automatic Fire Suppression Unit is ideal for Transit Fire Protection

- Chemori uses the Eco7® Detection Tubing as both the fire detection device and the fire suppressant delivery system. The portion of the tube nearest to the hottest point of the fire ruptures, forming an effective discharge “nozzle.” The pressure drop in the tube releases the entire contents of the cylinder through this nozzle.
- Eco7® Detection Tubing units are self-operated which does not require electrical power supply.
- No false activations, systems are failsafe and react only to fire or extreme heat
- Very easy to install and maintain
- Cost effective protection for engines, electrical systems or HVAC

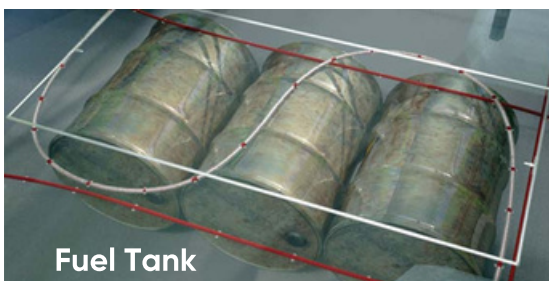
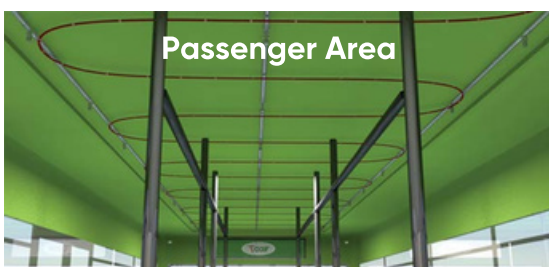
## Direct Action Release (DAR) Areas Protected



Direct Manual Release Assembly and System Control Unit is placed with driver's reach for easy access



## Secondary Action Release (SAR) Areas Protected



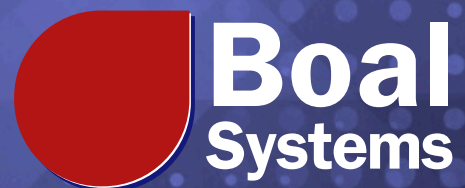
## Direct Action Release (DAR) & Secondary Action Release (SAR) Systems

Chemori Pre-Engineered Units can be configured for Direct Action Release (DAR) by utilizing tubing that performs as a fire detection device, a nozzle and a fire suppressant delivery in the system. Under this design, no electrical detection devices and alarm control units are required. The portion of the tube nearest to the hottest point of the fire ruptures, forming an effective discharge “nozzle.” The pressure in the cylinder propels the entire contents of the cylinder through this instant nozzle which is directed to the fire immediately. Our Pre-Engineered units valve can be configured for Secondary Action Release (SAR) as well. Under this arrangement, Eco7® tubing is used solely as a detection device. When Eco7® tube erupts under a fire condition, it will activate the Pre-Engineered unit valve to discharge the fire suppression agent through the discharge port of the valve, which is connected to a set of copper or stainless steel tubing or braided hose with nozzles strategically placed within the protected enclosure. This arrangement again does not require any electrical alarm control panel. In contrast, our Pre-Engineered unit can be fitted with an electric solenoid which is connected to an Agent Release Control for electrical release of the extinguishing agent. This configuration will require the connection of electrical detection devices to the Agent Release Control.



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