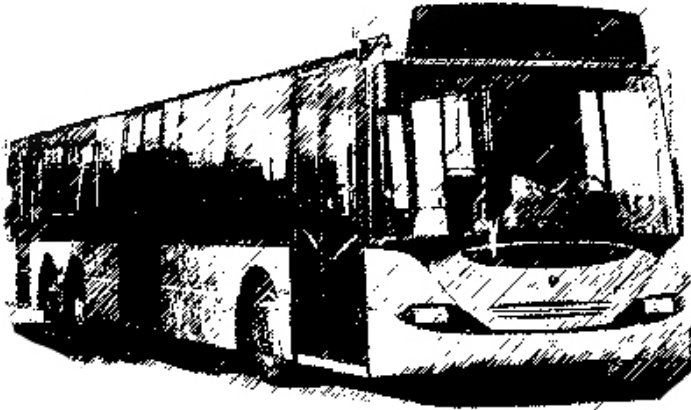


EXTINGUISHING SYSTEM FORREX FOR BUSES

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Flik 12



Commencing January 1st 2004 and by decision of the Swedish insurance companies, every new bus weighing 10 tons or more must be equipped with an automatic fire suppression system.

A fire in the engine compartment often develops violently, is hard to get to with a hand portable and the time available for evacuation is short. A properly designed and installed fire suppression system is the fastest and most effective way to prevent a disaster.

Dafo is the market leader with more than 20 years of experience in vehicle fire protection. Our approved systems offer a variety of agents and features and are developed to perform flawlessly time after time, even in the roughest of environments.

System design

Extinguishing system

The fire suppression system normally protects the engine compartment and in some cases hydraulics and heaters.

The system is fully automatic. Actuation is achieved through conventional heat detectors or linear heat detector wire. Means to manually release the system can be provided upon request. The agent is released through a pipe system with specially designed nozzles that effectively covers the protected areas.

With the new, patented, FX-K Forrex container, installation couldn't be easier. The container can be mounted in any position, is modestly sized and well adapted for installation on vehicles without compromising reliability and ruggedness, even in very harsh environments. System components comply with all applicable standards and directives.

Detection

Conventional heat detectors

Heat detectors are installed in the protected areas. Normally 3-6 detectors are sufficient, depending on the hazard. The control unit is located close to the driver. The system is also equipped with an alarm horn.

Detection and actuation circuits are continuously supervised and faults are indicated with LEDs on the control panel. Alarm devices and supervisory circuits can be tested from the control panel.

Linear heat detector

Heat detector wire is routed through the hazard in the appropriate length.

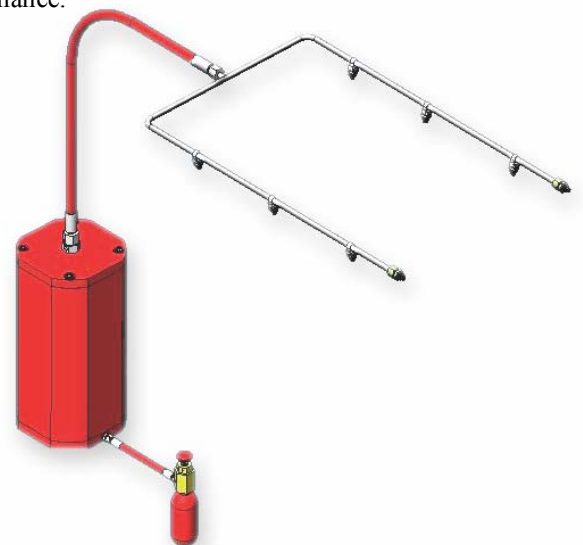
The widest product range in the market

Dafo can supply approved systems with different agents, and different features in a wide price range, and easily adapt the systems to special customer demands.

A revolution in container design

The new, patented, FX-K Forrex container ensures, due to its unique design, total agent discharge regardless of position. This means that the system is operational even if the vehicle is turned over. The cylinder is easy to recharge and maintain without the need for special tools.

The design allows for total scalability and the container can be optimized for the protected area. The sturdy aluminium construction ensures long life with a minimum of maintenance.



Agent

Dafo is supplying systems with our FORREX agent.

- *Forrex*
The liquid agent that rapidly extinguishes fire and effectively prevents re-ignition. A low pressure system demanding but modest space and that operates down to -30°C.

The Insurance Companies

Commencing January 1st 2004, every new bus weighing 10 tons or more must be equipped with an automatic fire suppression system.

Dafo was the first company to pass the stipulated fire tests and are already supplying approved systems according to the new regulations in SBF 128.

An example of system design

The fire is detected by linear heat detectors (1) and sends a signal to the connection unit, which activates the electric actuator and sets of the activation cartridge which activates the container.

The container (2) forces the agent through the pipe system and out through the nozzles (3).

When the system is activated, alarm is given through the alarm horn (5) and the alarm lamp (4) or fire LED is lit on the control panel. (control panel is option)

Any shut-down functions tied in to the system, for instance engine stop and fuel cut-off, is also activated. Manual release can be obtained through the release button on the control panel or the manual release on a pilot cartridge.

Dafo – the safe partner

Our experience is your key to the most effective fire protection for vehicles available today.

For the last 10 years Dafo has delivered and installed fire suppression systems for buses and today there are more than 1.000 systems in operation, providing traveller's through-out the world with reliable protection.

Some of the customers and users of Dafo systems are:

- All ethanol- and hybrid-buses operated by Busslink
- OMNI/Scania
- Volvo Buses
- Helsinki public transportation
- Polar bus
- Borås public transportation
- Jumbolans ambulance transport and handicap buses
- Helmark
- Bova

For the last 30 years Dafo has delivered and installed more than 15.000 systems on forests and construction vehicles as well as on loaders and trucks operating in fire hazardous environments.

