

Dafo was the first company to pass stipulated bus fire tests. Many of the world's leading bus manufacturers install Dafo Forrex Fire Suppression Systems on the assembly line.

## DAFO FORREX FIRE SUPPRESSION SYSTEMS FOR BUSES



**Most bus fires start in engine compartments and surrounding areas.** A tested and classified fire suppression system in combination with good fire detection, is the best first response in case of an emergency.

Dafo Forrex Fire Suppression System get activated by heat detector when the temperature reach 180°C.



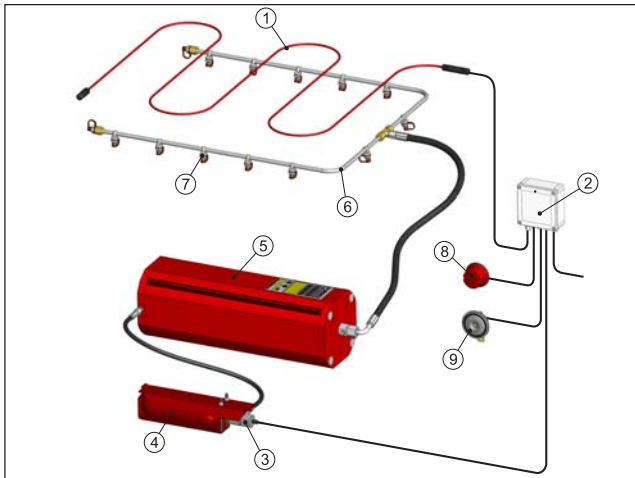
*The liquid agent extinguishes fire in less than a second and effectively prevents re-ignition. A low pressure system demanding but modest space and that operates down to -50°C.*

The Dafo system is developed to use worldwide in both cold and hot climate and designed after the Swedish guideline SBF 128, which requires 3L extinguishing agent for 1m<sup>3</sup> protected space.

It means, we leave nothing to chances, safety first! The Dafo system is designed to avoid false releases – one of many special qualities.

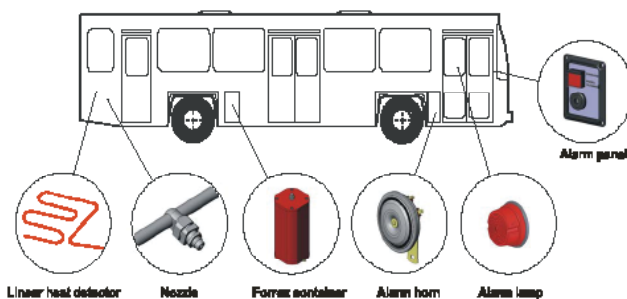
  
fire & rescue systems

# DAFO FORREX FIRE SUPPRESSION SYSTEMS FOR BUSES



## INSTALLATION

Fire is indicated by a linear heat detector wire (1) that sends a signal to the actuator (2) which punctures the propellant gas cartridge (3) and releases nitrogen to the agent container (4) that distributes the Forrex liquid to the nozzles (5) through the pipe system. At the same time the alarm system is activated, an alarm horn (6) in the bus and a light signal in the panel will warn the driver (7).



## OPERATING INSTRUCTIONS IN CASE OF FIRE

Have a hand portable extinguisher ready for safety when opening the engine compartment hood. The alarm to the fire system will sound until the detection wire is cut of, by cutting the wire next to the control unit or by removing the fuses. Do not start the bus until the cause of fire is determined, and service have been done.

### IN CASE OF FIRE

- Stop the bus at a safe place as quickly as possible
- Evacuate all passengers
- Get the hand portable extinguisher and check if it's still burning
- Call the fire department if necessary
- Cut the wire to the horn
- Document the fire
- Clean up
- Reload the extinguishing system

*As the owner of a vehicle equipped with a Dafo Forrex Fire Suppression System, you have taken an important step in facing the fire problem. This flexible, fully automatic system detects and extinguishes fire in less than a second. It's totally independent of orientation while maintaining a 100% discharge of the agent. Emptying time approx. 20 sec. Actuation is achieved through a linear heat detector wire which detects the fire in a really early stage. 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 and easily adjusts the amount of extinguishing fluid.*

## SERVICING

Once a year the system must be inspected and serviced by a trained and authorized service company. The service will be carried out according to the service manual and the service protocol. Every 4th year comprehensive service, every 10th extended service.

## GUARANTEE

You have twelve months warranty from the installation date. Within this time, defects in material or manufacture of components delivered from Dafo give right to replacement free of charge.

## CERTIFICATE

The system is certified by TÜV, SBF, FM, Russian Law of Fire Safety no. 123F3. Dafo Forrex extinguishing fluid is certified by the MPA, the SP Environment certificate, Lloyds Register (ICAO Level B) and CCC (China). Dafo Forrex Fire Suppression System is tested for EMC, vibration and temperature according to vehicle standards.

## SAFETY AND REQUIREMENTS

According to increasing requirements, smoke detectors for toilets and luggage compartments are available for installation at the bus manufactory.

We also have a linear heat detector wire in the range, which is currently installed in serial production at various bus manufacturers.

## PERSONNEL SECURITY

The harmless extinguishing liquid and no pressure resting state represents no health risk to passengers or mechanics.

