

# FIRE SUPPRESSION SYSTEMS FOR MATERIAL AND CARGO HANDLING EQUIPMENT



*Dafo was the first company to pass the SPCR 183 stipulated fire tests. Many of the world's leading vehicle manufacturers install Dafo Forrex Fire Suppression Systems as a standard. Dafo has until today sold more than 100 000 systems to leading manufacturers as Volvo, Hyster, Cargotec etc. We have installed systems for container handling machines in Sweden, Finland, Germany, England, Belgium, France, Djibouti, Australia, Dominican Republic, Romania for example.*

  
vehicle fire protection

Most vehicle fires start in engine compartments and surrounding areas. A tested and certified fire suppression system in combination with efficient fire detection, is the best first response in case of an emergency. Dafo Forrex Fire Suppression Systems response rapidly to any increase in temperature. The Dafo system is developed to use worldwide in both cold and hot climate and designed after the International guide-lines SPCR 183 and Swedish guidelines SBF 127, which requires 3L extinguishing agent for 1 m<sup>3</sup> protected space.

This means that we leave nothing to chance, safety first! The Dafo system is designed to perform even under severe conditions in harsh environments.



### DAFO FIRE SUPPRESSION SYSTEMS

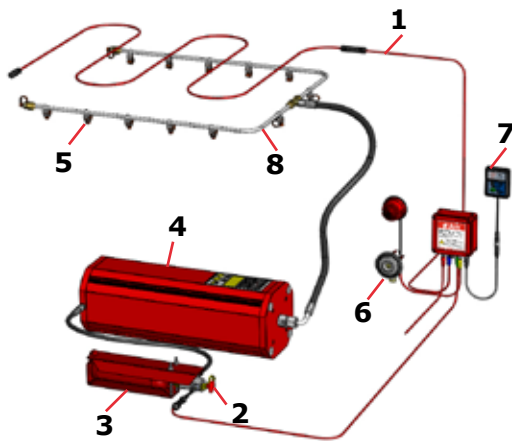
As the owner of a vehicle equipped with a Dafo Forrex Fire Suppression System, you have taken an important step in facing the fire problem. This flexible, fully automatic system detects and extinguishes fire rapidly. Detection is achieved through a linear heat detector wire which detects the fire in an 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.

### FORREX - MAKES THE DIFFERENCE

The liquid used in the Forrex system is specially developed for use on fires in combustible engines. It is highly effective on fires in flammable liquids like petrol, diesel and hydraulic oils and in burning solids like wood, chips and peat. It smothers quickly fires from diesel oil flowing from a burst fuel pipe or hydraulic oil sprayed under pressure. The liquid agent will push away the oxygen, cool down the overheated engine parts, impregnate the burning material, stick to surfaces and effectively preventing re-ignition. Forrex is non corrosive and environmentally friendly.

### PERSONNEL SAFETY

The harmless extinguishing liquid and normally pressureless containers presents no health risk to operators or staff.



### FUNCTION

Fire is indicated by a linear heat detector wire (1) that sends a signal to the actuator (2) which punctures the burst disc of the propellant gas cartridge (3) and re-releases nitrogen to the agent container (4) that distributes the Forrex liquid to the nozzles (5) through the pipe system (8). At the same time the alarm system is activated, an alarm horn (6) in the vehicle and a light signal in the panel will warn the driver (7).

### CERTIFICATE

The system is certified by TÜV, SBF, FM, Russian Law of Fire Safety no. 123F3 and SPCR 183. 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.

### BENEFITS

- Strong cooling effect
- Film forming effect to prevent re-ignition
- Pressure-less container (Personnel safety)
- Freeze protected down to -50° C
- Easy maintenance
- Easy to clean up after discharge
- Independent system
- Non corrosive
- Environment friendly

