

YTM
Fire  **Stop**

Automatic fire extinguishing system

YTM Fire Stop



Reliable
Safe
Effective



YTM Firestop is manufactured by YTM-Industrial. YTM-Industrial has specialised in developing fire suppression systems for industrial utility vehicles and mobile equipment. Typical customers are in the OEM, mining, lumber, metal and logistics industries.

YTM-FireStop system design and development was based on the documentation published by the Federation of Finnish Financial Services (FFI) in its Damage Prevention instructions FA127 and FK128 regarding the design and

installation of fire extinguishing equipment in motor vehicles and construction machines.

YTM-FireStop equipment was especially designed and tested to extinguish fires in the engine bay of construction machines, buses and coaches arising from fuel and oil leaks or momentary electrical malfunctions. YTM FireStop fire suppression system is tested by the VTT Fire Research Laboratory in Finland according to the FA127 instructions and the SFS 5997 standard.

Working Principle and System Diagram

1. The equipment functions **automatically** but it can also be activated manually by pressing the FIRESTOP push button or using external triggers.
2. The temperature sensor cable detects a fire automatically and signals it to the control center.
3. The control unit automatically triggers the extinguishing process
4. Extinguishing starts with an alarm and an engine stop (if connected).
5. The extinguishant container is filled with AFFF foam which is sprayed into the engine bay.
6. The AFFF foam liquid extinguishes the fire, prevents re-ignition and cools down the target on fire.





Automatic System

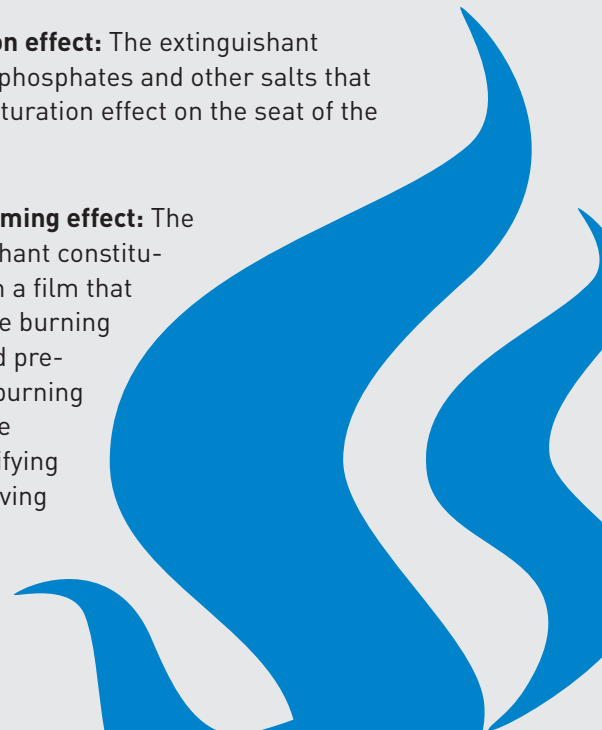


For utility vehicles and mobile equipment the most effective way to ensure fire protection is to use a fire suppression system that is activated immediately when the fire ignites. This way the fire doesn't have time to spread and cause additional damage. The system can be targeted to a single object (e.g. the motor) or a bigger area if needed.

As an electronic subsystem in an automatic fire extinguishing system it has the basic task to launch the extinguishant in the event of fire and maintain continuous readiness for action. By doing this the system guarantees an errorless operation, a safe working environment for your staff and no loss in effectivity.

Why choose AFFF-extinguishant?

- ▶ The AFFF foam is an extinguishant used in permanently installed fire extinguishing systems. It is a frost-resistant chemical product especially developed for fire extinguishers and applicable for solid matter and hydrocarbon fires.
- ▶ The extinguishant is an A/B compound complying with the EN 1568-3 standard.
- ▶ Thanks to its properties, the AFFF emulsion is an excellent agent to extinguish fires in machines, equipment and vehicles.
- ▶ **Cooling effect:** An effect caused by the evaporation of liquid contained water. The extinguishant includes constituents which require a lot of energy when heating up and disintegrating. Compared to water, its also penetrates fibre materials more effectively.
- ▶ **Saturation effect:** The extinguishant contains phosphates and other salts that have a saturation effect on the seat of the fire.
- ▶ **Foam forming effect:** The extinguishant constituents form a film that covers the burning liquid and prevent the burning substance from gasifying and receiving oxygen.



Always tailored for the application

The fireextinguishing system is always individually tailored in accordance with the needs of the application. The delivery always includes negotiated planning with the customer, which the definitive solution is based on. For example, the quantity of extinguishing agents and nozzles is based on the calculations and tests we have performed.

The most common extinguishing agent tank sizes are 6L, 10L, 20L and 40L and their combinations. The extinguishing agent tanks comply with the Pressure Equipment Directive and instructions. The mounting racks, as the extinguishing agent tanks, are stainless steel painted red, and they are specifically designed for difficult conditions.



Reliable service from an experienced professional

 **YTM-Industrial**
INDUTRADE GROUP

Fire protection has been part of YTM-Industrial's product family since the founding of the company in 1977. At that time, our range featured only portable fire extinguishers, but over the years the range has expanded to also include various fire extinguishing systems.

Today, we deliver the fire extinguishing systems for the most typical applications, from kitchens to rolling stock and room protection.

YTM FireStop is YTM-Industrial's own brand, and the fire extinguishing system has been developed in Finland, given the domestic needs and conditions of use.

You can find more information on the YTM FireStop product family and YTM's fire protection range on our website.

► www.ytm.fi

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