

## LIGHTWEIGHT UNIT OF RAPID ATTACK

A lightweight vehicle equipped with the **FIRE STOP 200/30** system is a complete system which can be operated by only one person and can extinguish fires or block them until the arrival of emergency units.

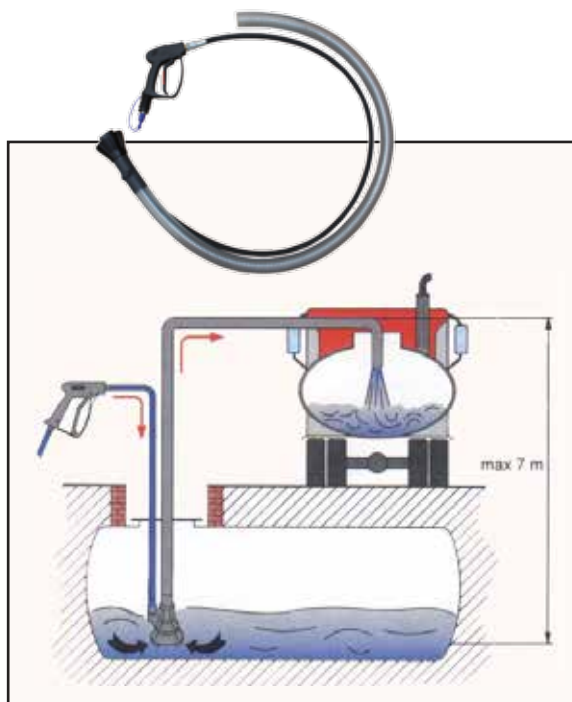
### ADVANTAGES:

- Versatility and speed of movement.
- Access to difficult areas (narrow streets, heavy traffic, commercial areas such as squares and pavements, natural areas etc.).
- Low water consumption.
- Capacity to apply foams and retardant products.
- Less damage caused by water.
- Easy to use: one operator is enough.
- Its capacities can be increased with optional accessories
- Modular base: if the vehicle does not work, the system can be moved on another vehicle.

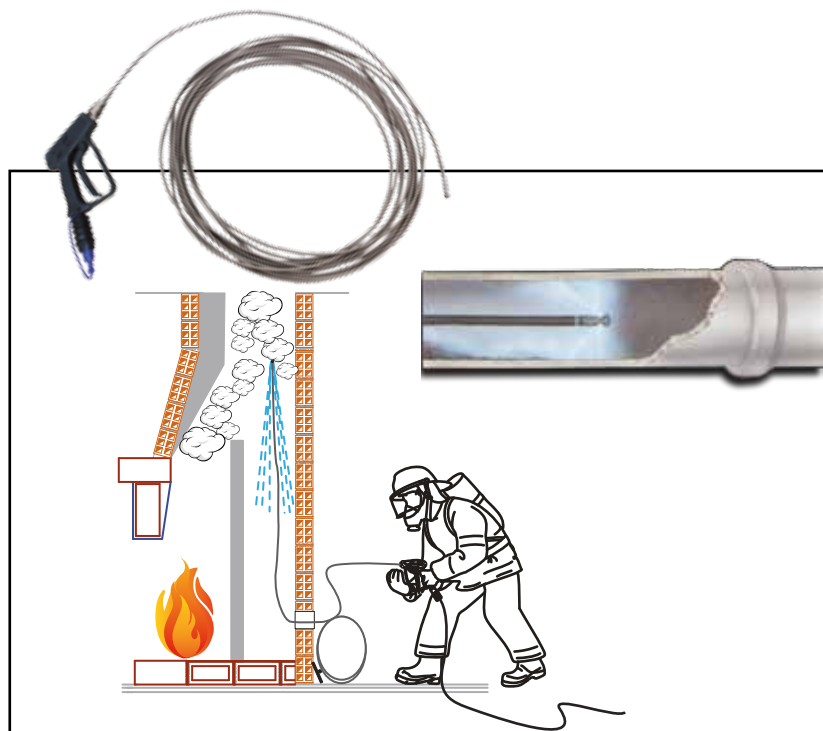


## OPTIONAL ACCESSORIES

**SAM56** code 950090129 - for the suction and transfer of contaminated waters also in presence of solid corps from a lower level up to 5 metres.



**AJ6M** code 085010021 - 20 metres long, stainless steel hose resistant to a temperature of 260°C for fires inside chimneys, crawl spaces etc.



## FIRE STOP 200/30

High technology system for first attack of fire with high pressure nebulized water and water mist.





## RAPID, LIGHT AND EASY TO USE

FIRE STOP 200/30 is the most suitable response for first attack fire fighting in any environment, as its extinguishing capacity is much higher than all the classic extinguishing systems.

The reduced overall size allows transport with small vehicles, making it absolutely versatile to use in all environments that are hard to reach with normal emergency vehicles.

The winning system of FIRE STOP 200/30 is its water mist technology. In fact, when water is under high pressure (200 bar) it is pulverized forming millions of micro-particles (160.000.000 droplets) which have the effect of smothering the fire and cool down the environment.



## THE WATER MIST TECHNOLOGY

The Water Mist system does not act only by cooling down the fuel but also by smothering, as the millions of micro-particles saturate the environment, replacing the air and therefore the oxygen in the environment. **Fire Stop 200/30 thus acts both by cooling and by smothering the fire.**

As an example, a litre of water exposed to 400°C, evaporating, produces 3m<sup>3</sup> of steam. 300 m<sup>3</sup> are saturated with 100 litres, that is equal to the volume of a big room with a surface of 100 m<sup>2</sup>. One of the most important aspects of Water Mist technology is the reduction to a minimum of the water used to extinguish a fire. With the traditional extinguishing systems (hydrants, hoses etc.), a large amount of water has to be used, which often flows towards the lower floors, creating great damage and contamination of large surface areas and volumes.

**Thanks to Water Mist technology, Fire Stop 200/30 limits to a minimum the water necessary for extinguishing a fire.**

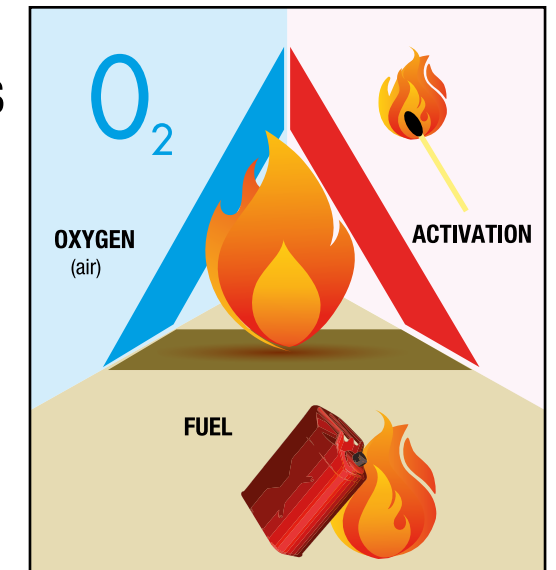
1 LITRE OF WATER			
AT THE PRESSURE OF:		1 ÷ 5 BAR	200 BAR
HAS A CONTACT SURFACE WITH THE HOT GASES OF:		0,048 m <sup>2</sup> 	20 m <sup>2</sup> 

## USING FOAM AND OTHER EXTINGUISHING OR RETARDANT AGENTS

Fire Stop 200/30 can also use foam or other extinguishing or retardant agents which increase its extinguishing capacity even more.



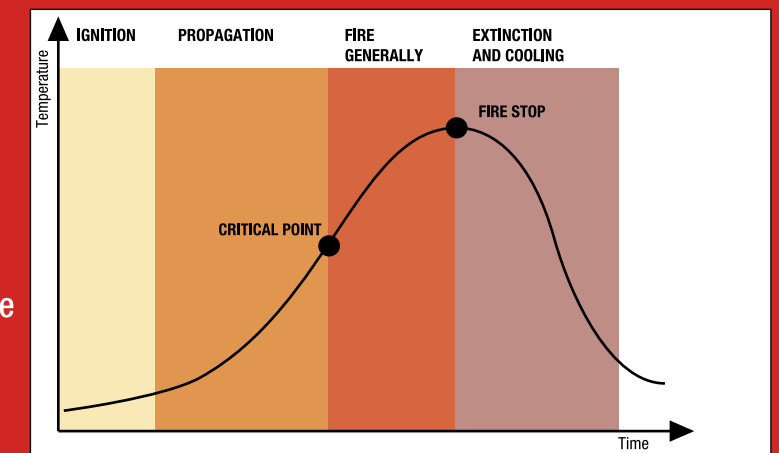
*Less than 1 minute to extinguish the fire of a car.*



## THE ACTION OF FIRE STOP 200/30 IN THE FIRST PHASES

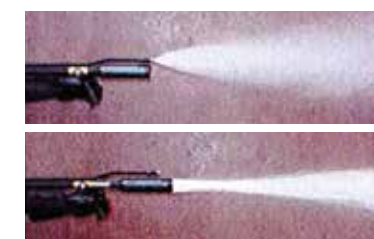
The temperature of a real fire in a confined place increases over time, during which 4 very specific phases can be identified.

In any point of the graph, the intervention with the Fire Stop will produce important reductions of temperature. The fire-fighter can enter and perform the extinguishment in one minute, facing less dangerous environmental conditions. The Fire Stop can prevent dangerous phenomenon as for example the flashover (generalized fire) and backdraft (explosion of fumes) and safeguard the team.



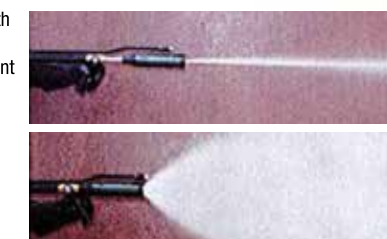
There may be a variable time from between 5 to 30 minutes, for the most distant places, from the emergency call to the arrival in loco of the fire-fighters. This first phase, from the onset of a fire to the arrival of the fire-fighting teams may be the most important to save a person's life or a whole business. The action of the emergency team in the first phases may avoid spreading the fire and avoid major damages to people or the destruction of important facilities.

## FUNCTIONS OF THE LANCE



Nebulizing only water, or water + foam with micro-particles of water to saturate the environment and cool down the environment with water mist

Water + foam with semi-open jet at low pressure



Only water, or water + foam under pressure

Water + foam to rapidly cover the area concerned