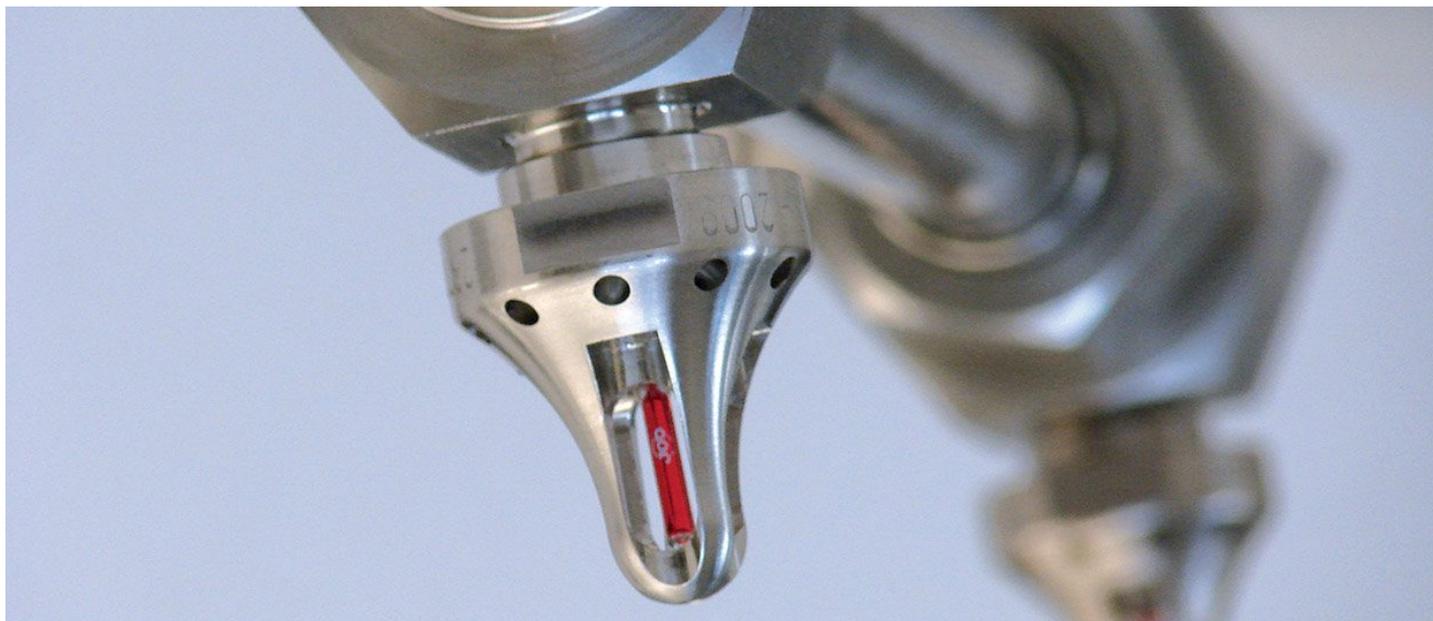


WATER MIST SYSTEMS

Water mist systems diffuse water through spray nozzles, creating a fine mist/spray.



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This system has found main goals : extinguishing, suppression, control and compensatory measures.

- ✓ Extinguishing; complete and definitive elimination of a fire with open flames or covering fire.
- ✓ Suppression; significant reduction of the heat output thus preventing fire reignition.
- ✓ Control; confining the fire to limit its spread
- ✓ compensatory measures; structural reinforcement and risk mitigation of the fire hazard.

How does it work ?

A mist of water is generated by a pressurizing unit (around 100 bars) and from nozzles with calibrated orifices.

- ✓ deluge system : activated by a fire detection system or manually
- ✓ sprinkler system : activated by a temperature-sensitive element (hot-melt bulb)
- ✓ pre-action system : activated by a fire detection system or manually and by a temperature-sensitive element

What happens during a fire :

- ✓ cooling of hot and fuel gases and pre-wetting

- ✓ cooling of combustion products
- ✓ mitigation of thermal radiation
- ✓ oxygen depletion (local or general) due to water spray

Depending on the nature and constraints of the protection required, two approaches can be considered:

- ✓ total flooding : water mist is scaled to size in order to ensure protection of all, or part of an area
- ✓ object : water mist is directly sprayed on a specific object

When is it used ?

- ✓ Generators – both total flooding and object
- ✓ Transformers
- ✓ Cable tunnels
- ✓ Archive rooms
- ✓ Control rooms, electrical rooms
- ✓ Engine test benches
- ✓ Gas turbines and combustion turbines
- ✓ Hotel rooms, offices, libraries
- ✓ Data centers
- ✓ Road and railway tunnels

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