



## Water mist fire fighting system

model WMS

Water mist system is a new technique that transfers the normal straight water stream to an extremely small water drops. That makes water stream takes the shape of fog which increases the surface area of water and leads to better extinguishing of fire than the normal technique.

The potential energy required to evaporate water is absorbed faster by the tiny drops from medium (fire), which decreases the temperature of fire.

As vapor volume is 1700 time more than water volume, it replaces oxygen and breaks fire triangle, which produces:

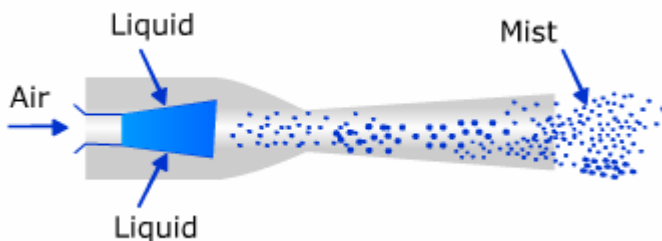
1. Reduction of time required to put off fire.
2. Reduction of amount of water required to put off fire:
  - With a rate of 1:16 for solid substances fires.
  - With a rate of 1:50 for liquid substances fires.
3. Limiting fire from spreading.

**Note:** with this system, a light size truck can perform as 10 heavy trucks, which is considered a huge evolution in fire fighting technology, in addition to the following benefits:

1. There will be no water left on the scene of fire as all water is consumed in the extinguishing process.
2. There will be no water left that may harm equipment. That makes water mist system perfect for power stations, electronic equipment and petroleum fires, at which normal
3. Water stream can not be used.

### **Equipment:**

- 2 hose reels 100 m length and 1/4" diameter.
- Water mist nozzle.



**Manufacturing & design are according to NFPA**

**ELECTROLAB**

[www.electrolabtrucks.com](http://www.electrolabtrucks.com)

[electrolab@electrolabtrucks.com](mailto:electrolab@electrolabtrucks.com)

Dallah building,7 A Cornaish ELnil, Maadi,  
Cairo, Egypt

Tell: ++(20)2 25285213 /4/5/6

Fax : ++(20) 2 25285212