



Water Mist

Fire Extinguishing System

An intelligent, Reliable and Optimal Firefighting Solution

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What is Water Mist System?

SFFECO Water Mist System is a unique firefighting system. A super-fine spray is produced by forcing high-pressure water through nozzles. This spray provides double extinguishment. In addition to cooling the fire, it also depletes oxygen, like a gas fire suppression system.

Mists expand and evaporate several times when they are in contact with flames. As a result, the dense vapor created displaces the flames and extinguishes the fire quickly.

Application of Water Mist

- ◆ Restaurants, Kitchen, Canteen etc.
- ◆ Residential Areas, Hotels, Hospitals, etc.
- ◆ Office, Conference Hall, Computer Room, Data Centers, etc.
- ◆ Library, Archives, Storage Room, etc.
- ◆ Laundry room, Pump Room, Technical Room, etc.
- ◆ Car Parking, Fitness Rooms, Shops, etc.
- ◆ Transformer Room, Generator Room, Battery Room, etc.

Benefits of Water Mist

- ◆ Safe for occupants
- ◆ Facilitate access for fire fighter
- ◆ Prevent fire from spreading
- ◆ Downtime minimized
- ◆ Less water required
- ◆ Easy flexible and fast installation
- ◆ Suppress fire swiftly and efficiently
- ◆ Cost effective, efficient and reliable solution
- ◆ Compact and modular system unit saves space

OXYGEN, HEAT, AND COMBUSTIBLES MAKE UP THE FIRE TRIANGLE, AND CHEMICAL REACTION IS THE FOURTH ELEMENT THAT HELPS A FIRE TETRAHEDRON TO BEGIN. THE REMOVAL OF ANY ONE OF THESE ELEMENTS WILL EXTINGUISH A FIRE.

THE WATER MIST SYSTEM GOES A STEP FURTHER, IT TARGETS OXYGEN AS WELL AS HEAT, WHICH ARE KEY ELEMENTS IN THE FIRE TRIANGLE.



Small water droplets are used in a water mist system to control, suppress, or extinguish fires.

A fine mist is created by discharging high-pressure water through specialized nozzles.

A water mist's cooling effect occurs when it absorbs the heat radiation from a fire. This prevents and reduces damage to people and property.

Solid fuel fires can be suppressed by wetting the fuel and the area around the fire. This also prevents the fire from spreading.

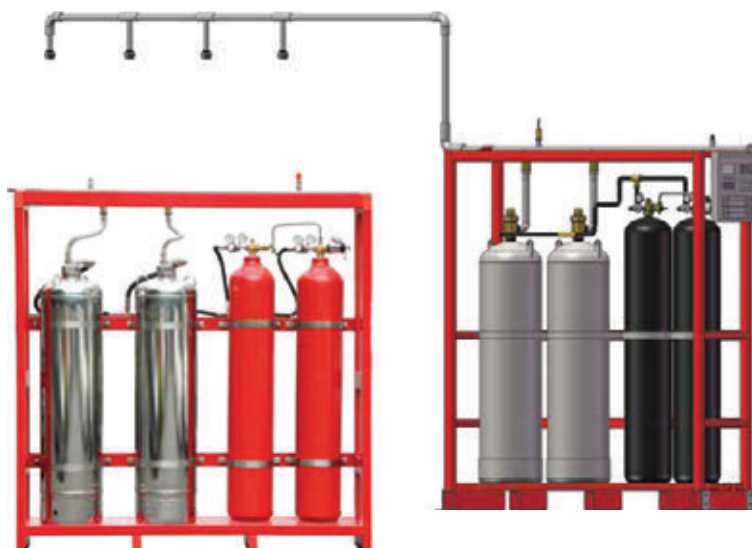
It is the rapid evolution of water mist droplets into vapor that causes oxygen displacement in a fire by disrupting the fire tetrahedron.

Water mist is suitable for fire extinguishing, fire suppression, fire control, and temperature control of the following fires:

Class A, Class B, Class C, Class E, and Class K fires

Other fires: fires in engine test rooms, road and utility tunnels, locomotive power rooms, electrical rooms, and other places where water mist is suitable for fire extinguishing.

Cylinder Type Water Mist System



Cylinder Type

Water Capacity: 70L, 90L, 120L, 150L, 180L

Working Pressure: 5.3MPa

Pump Type Water Mist System



Pump Type

Flow (L/Min)	112	224	336	448	560	672	784
Working Pressure	14Mpa	14Mpa	14Mpa	14Mpa	14Mpa	14Mpa	14Mpa
Pump Speed	1470 r/Min	1470 r/Min	1470 r/Min	1470 r/Min	1470 r/Min	1470 r/Min	1470 r/Min
Dimension (cm)	22x12x20	26.5x12x20	26.5x12x20	31x12x20	31x12x20	35.5x12x20	35.5x12x20
Note	One Work, One Reserve	Two Work, One Spare	Three Work, One Spare	Four Work, One Spare	Five Work, One Spare	Six Work, One Spare	Seven Work, One Spare

SFFECO HAS A LONG STANDING ESTABLISHED REPUTATION FOR PIONEERING INNOVATION EVER SINCE ITS FOUNDATION IN 1983.

SFFECO HAS ITS STATE-OF-THE-ART MANUFACTURING PLANTS IN RIYADH AND DUBAI PRODUCING END-TO-END RANGE OF PRODUCTS FOR THE FIRE FIGHTING INDUSTRY MATCHING INTERNATIONAL STANDARDS IN QUALITY.



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