

High Pressure Water Mist Fire Suppression System (HP WMFSS)

High pressure single fluid water mist fire suppression technology has been accepted worldwide for its fire extinguishment and thermal management capabilities. This technology generates very fine water droplets which produces a very large heat collecting surface area and rapidly reduce the temperature of the combustion zone and air in the space. As the water droplets convert into vapour, it dilutes the oxygen concentration leading to smothering of fire. Water mist does not require spaces to be sealed or evacuated and can be deployed in manned spaces. The mist acts in several ways to fight fire but can also be used to prevent flashovers and pre-emptively cool compartments.

Product Description:

- Working pressure : 100 ± 20 bar
- Droplet Size Dv_{32} : $\leq 100 \mu\text{m}$ (SMD)
- Design concentration : 450 gm/m^3
- Spray cone angle: $100\pm 20^\circ$

Salient Features:

- Efficient in extinguishing flammable liquid and combustible solid fires
- Scavenging of obnoxious gases
- Non toxic and safe on electrical equipment
- Faster post-fire recovery for re-usage of the facility
- Environment friendly fire suppressing agent
- Easy to operate & low maintenance cost