

SECURIPLEX

FIRE-SCOPE® 5000

High Pressure Water Mist Protection

INDUSTRIAL, MARINE & OFFSHORE

TOTAL FLOODING AND LOCAL APPLICATION PROTECTION (Protection of machinery spaces up to 3000 m³)



The **Securiplex** FIRE-SCOPE® 5000 Water mist fire protection system can solve your fire protection needs across a number of platforms spanning the industrial, commercial, mining, marine, chemical, and other markets. If you would like an alternative to CO₂, FM200, sprinklers or even Novec 1230, water mist offers advantages than **no other** fire suppression system can offer!

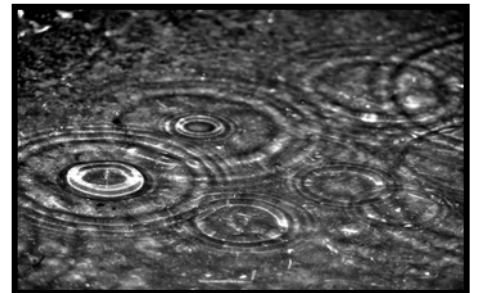
Key advantages of the FIRE-SCOPE® 5000 include:

- No adverse effects on the environment!
- Uses **NO** additives!
- Maintains oxygen levels in machinery space at high levels keeping **personnel safe** if trapped.
- Scrubs smoke particulates out of air, reducing clean up costs.
- Maintains cool temperatures in machinery space during a fire, reducing collateral damage and equipment loss.
- Compared to sprinklers, uses up to 20 times less water resulting in less water damage during a discharge.
- System can be connected directly to your water supply or to a dedicated water tank!
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With the oldest reputation for water mist fire protection in North America, Securiplex has set the standard against which all other manufacturers in the industry are measured. We achieved the first FM approved water mist fire protection system in North America. Our water mist system tested at US government laboratories has shown that we surpass all other major manufacturers in extinguishment times by **several orders of magnitude** in many cases.

What's the secret to water mist?

There are a number of parameters that dictate whether a water mist system will provide effective fire extinguishment. Some of these factors include the water discharge velocity, spray angle pattern, particle size and nozzle coverage area. Through many years of research and development, Securiplex has been able to find the right balance between these parameters to be able to extinguish fires **faster** than any other manufacturer. Conventional sprinklers and water spray systems fight fires by the process of wetting or cooling combustible surfaces with large water droplets. When compared to sprinkler droplets (as pictured to right), the water mist particles from the FIRE-SCOPE® 5000 are many times smaller (ie. as small as 10 microns). When these particles enter a fire plume, there is a rapid thermal exchange of heat which cools the fire and converts the water particle into a steam particle. The steam particle (with a volume twice that of air), displaces the oxygen surrounding the fire and helps to extinguish the fire. So with cooling, local oxygen depletion and radiant heat absorption, water mist is able to extinguish fires quick and effectively!



The **Securiplex** FIRE-SCOPE® 5000 operates at high pressures of 750 psi (52 bar). This allows for the use of small diameter piping/tubing allowing for faster installation times and cleaner looking installations. Systems are available in either electric driven versions or self contained nitrogen/air cylinder assemblies. In addition to being FM approved, both options are USCG and ABS certified as well.

Through our R&D activities and our many approvals, a whole host of applications are suitable for our **FIRE-SCOPE® 5000** high pressure water mist system including emergency diesel generators, paint booths, gas turbine power generators, aircraft hangers, propulsion engines, transformers, MCC rooms, road tunnels, mining equipment, conveyors, cable tunnels, and **many other applications.**

