

WATER-BASED FIRE PROTECTION

Fire Sprinklers

For more than one hundred years Fire Sprinklers have been used around the world to protect property and lives against fires, and with great success. Statistics show that where Fire Sprinklers are adapted there is a much higher chance that no lives are lost and that the building will survive the fire. The fact that Fire Sprinklers have existed for so long time indicates that the technology is robust and reliable – factors such as large waterways in the system, low water pressures (<12bar / 175PSI) and good, sound, well-known procedures for designing, installing and maintaining the technology is most likely the reasons why Fire Sprinklers are as good as they are.

The downside of the Fire Sprinkler technology, however, is that it uses a lot of water which does not only create large costs for establishing a water supply, but it also increases the risk that water from the Fire Sprinklers damage as much as or even more than the fire itself. And since the Fire Sprinkler technology has existed for so long time, the industry is very standardized which prohibits the optimization of water use.



High Pressure Watermist

Since the mid-1980's a technology called High Pressure Watermist, typically using more than 60bar / 870PSI, has been used in cases where reducing the water consumption has been more important for the stakeholders than using existing and previously trusted technologies such as Fire Sprinklers. With High Pressure Watermist the typical water saving is more than 60% compared to Fire Sprinklers which enables not only a smaller water supply and less water damage in case of activation, but also smaller pipe systems which takes less space and weighs less.

The downside of the High Pressure Watermist technology, however, are the high water pressures themselves as they create the need for special pipe systems and pumps, large amounts of power to drive the system and systems with very small waterways. The special components increase system costs and create the requirement for more skills than the typical sprinkler installer have, high power consumptions also leads to increased costs, and very small waterways creates the need for specially treated fire water and very fine filtration - all requiring more maintenance which in turn increase costs.

Low Pressure Watermist Combining the best features

Low Pressure Watermist technology has for the last 15-20 years been available for the market as a technology combining the best from the Fire Sprinkler technology and the best from the High Pressure Watermist technology. Low Pressure Watermist works under the same pressure class as Fire Sprinklers (<12bar / 175PSI) but reduces the water consumption as much as High Pressure Watermist. So for stakeholders needing a reduction to water consumption and wanting similar robustness and reliability as Fire Sprinklers, Low Pressure Watermist is the answer.

VID Fire-Kill has more than 25 years knowhow within watermist R&D, manufacturing and sales. We have the largest product range with most covered variety of applications, specializing 100% in watermist solutions. We offer FM approved automatic and open nozzles and a fully MED and Type approved product range to all IMO standards.

A watermist system from VID Fire-Kill shall always give positive value to the end user. Positive value in our eyes is when the total sum of all benefits we supply is larger than the cost of obtaining the system.



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FACTS

About Low Pressure Watermist:

- Low Pressure Watermist systems use the same pressure class components as Fire Sprinklers (EN: <16bar / 230PSI, NFPA: <12bar / 175PSI).
- Low Pressure Watermist systems can, under the circumstance that the pump curve fits, use conventional approved Fire Sprinkler pumps as its pumps.
- Low Pressure watermist can be designed, installed and maintained with the same skillset as if it was a Fire Sprinkler system.
- Low Pressure Watermist saves as much water as High Pressure Watermist compared to Fire Sprinklers.
- Low Pressure Watermist is approved to the same approval standards as High Pressure Watermist.