

VID FIREKILL Low Pressure Watermist Industrial Applications



VID FIREKILL LOW PRESSURE WATERMIST

VID FIREKILL is a world leading innovative developer and manufacturer of water based firefighting products, specializing in fixed water based systems utilizing environmentally friendly firefighting methods.

Industrial facilities are at risk of large liquid and solid hydrocarbon fires due to multiple machines, chemicals and hot surfaces. Also, these facilities often feature complex structures, process enclosures and areas each with a different risk category and requirement for fire protection.

VID FIREKILL offers several solutions for the protection of applications such as:

- Internal combustion engines
- Oil pumps
- Oil tanks
- Combustion turbines
- Fuel filters
- Generators
- Transformer vaults

- Diesel engine driven generators
- Exposed combustion turbines
- Insulated combustion turbine areas
- Biomass storage areas
- Conveyor belts
- Lubrication skids
- Drive shafts
- Gear boxes

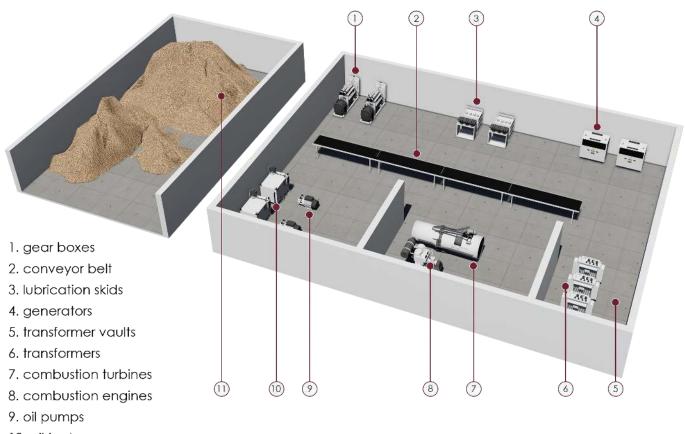
The **FIREKILL**TM systems are approved to the highest standards by notifying bodies such as FM Approval and DNV/GL.

FIREKILL™ UNIQUE SYSTEMS

For fire protection of industrial applications several different systems are often needed to protect the location, secure a safe work environment, limit production downtime and maintenance expense after a fire.

Most often industrial protection requires either general protection of the entire location, local protection for special machinery, full flooding for hazardous areas or point protection for special machinery.

For the protection of industrial applications VID FIREKILL has developed a series of unique low pressure watermist systems capable of handling each of the above mentioned principles. Depending on the facility structure and risk category each **FIREKILL**TM system utilizes specially designed **FIREKILL**TM products.



- 10. oil tanks
- 11. biomass storage area

Various options for individually fitted systems in order to meet the exact needs and create the best solution.

FIRE PROTECTION WITH 8 BAR

The **FIREKILL™** low pressure watermist systems for protection of industrial land applications offer complete fire protection with water pressures down to 8 bar / 116 PSI while using as little water as high pressure watermist systems typically operating at plus 60 bar / 870 PSI.



Facts about Low Pressure Watermist:

- Low pressure watermist systems can be designed, installed and maintained with the same skillset as conventional sprinkler and waterspray systems
- Low pressure watermist systems use the same pressure class components as conventional sprinkler systems (EN: <16bar / 230PSI, NFPA: <12bar / 175PSI)
- Low pressure watermist systems are more robust and reliable than high pressure watermist systems as the system waterways and nozzle orifices are larger
- Low pressure watermist is environment friendly and non-toxic. Besides the low water and power consumption potable water is used with no chemicals or toxic agents added.

BENEFITS OF THE FIREKILL™ LOW PRESSURE WATERMIST SYSTEM FOR INDUSTRIAL APPLICATIONS

Energy efficient

The **FIREKILL™** low pressure watermist system requires very low water flow rates resulting in a water saving of 60-90% compared to conventional sprinkler and waterspray systems. Similar water savings are found when using high pressure watermist systems, though with the **FIREKILL™** low pressure watermist system the water saving can be obtained with a more energy efficient solution.

Environmentally friendly

With lower water consumptions than conventional sprinkler and waterspray systems and lower water pressure than high pressure watermist systems the **FIREKILL™** low pressure watermist system is the most environmentally friendly solution found on the market.

Non-toxic

Compared to gas suppression systems the **FIREKILL™** low pressure watermist system only uses potable water, and when water is used as fire suppressant there is no toxic discharge.

Less business interruption

When a gas suppression system is activated it will discharge the entire amount of gas within the system – regardless of the size of the fire, and the system will not be operational before it has been refilled which may result in business interruption. The **FIREKILL**TM system uses potable water which is easily accessible.

Cost effective, easy to install and requires low maintenance

With the use of low water pressure and low water consumption the **FIREKILLTM** low pressure watermist system can be designed with small system components (e.g. pump, pipes and fittings) resulting in cost savings. Further, as the system installation procedures are similar to the installation of conventional sprinkler and waterspray systems but with less nozzles and smaller pipes, installation work can be done fast and easy saving time and money.

Robust and reliable

The low water pressure makes the **FIREKILL**TM system reliable and robust, and due to the system's large waterways and orifice design the risk of strainers clogging is minimized.

FIREKILL™ LOW PRESSURE WATERMIST SYSTEMS FOR INDUSTRIAL APPLICATIONS

The system composition depends on the structure and risk category of the facility or area that needs protection.

FIREKILL™ K6 is FM Approved for total flooding protection of machinery spaces, special hazard machinery spaces, combustion turbines and insulated combustion turbines with volumes up to 4610 m3 (162800 ft3) and ceiling heights up to 12 m (39.37 ft ceiling height).



FIREKILL™ LAK7 system is FM Approved for protection of various industrial applications with local protection design.

FIREKILL™ Model N-pipe is a low pressure fine water spray deluge system, successfully tested and verified for the protection of many different applications. The N-Pipe is manufactured in different shapes suiting various applications, typically biomass storage, conveyors, wood industry machines etc.



FIREKILL™ Model B1 is an FM Approved open low pressure watermist nozzle developed for protection of different industrial applications, high hazard machinery spaces and bilge areas.



FIREKILL™ Model SAS system is an FM Approved modular standalone low pressure watermist system for total flooding protection of small enclosures or local application objects with no or limited water or power supply. The SAS system operates at a pressure between 2 – 16 bar and consists of water cylinders and a nitrogen cylinder that are interconnected by stainless steel hoses.





APPROVALS

All our products are successfully tested by ISO17025 accredited fire test laboratories and 3. party approved by organizations such as FM Approvals and DNV/GL.









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