



Commercial Building Low Pressure Water Mist Fire Protection



COMMERCIAL BUILDINGS

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.

Commercial buildings are busy places full of potential fire hazards, and with their complexity and combination of functions, these buildings present unique challenges to fire protection.

VID FIREKILL offers complete fire protection of all types of commercial buildings such as office buildings, hotels, shopping centers, warehouses, hospitals, medical centers, and more.

The **FIREKILL™** low pressure water mist suppression system is designed to protect different areas of commercial buildings from fire and ensure the safety of people, protect property assets, and prevent expensive business interruptions.

The **FIREKILL™** low pressure water mist system complies with NFPA 750 and the European Standard 14972 for water mist systems.

The system only uses potable water as a suppression agent, making it safe for people and the environment.



COMPLETE FIRE PROTECTION

In compact downtown areas, commercial buildings are often multi-use buildings that serve more than one purpose. This may include shopping centers and food establishments at ground level, office spaces on upper floors, and underground parking garages.

These mixed occupancy buildings add additional challenges to fire protection due to the different kinds of fire groups.

The **FIREKILL™** low pressure water mist system provides complete fire protection of multi-use buildings by combining different types of **FIREKILL™** nozzles individually suited for specific areas and hazard groups.



- 1. Atriums
- 2. Offices
- 3. Conference rooms
- 4. Reception and lobby areas
- 5. Retail shops and kiosks
- 6. Food and drink establishments
- 7. Kitchens
- 8. Hotel room and suites
- 9. Corridors
- 10. Clinics
- 11. Storage rooms
- 12. Server rooms
- 13. Technical rooms
- 14. Enclosed parking

THE FIREKILL™ SYSTEM

The **FIREKILL™** system for protection of commercial buildings features uniquely designed low pressure water mist nozzles. The combination of nozzles depends on individual requirements and building type.

The **FIREKILL™** OH nozzle range consists of patented automatic semi-concealed low pressure water mist nozzles specially designed for effective and reliable protection of OH1, OH2, and OH3 risks.

The OH nozzles come in pendent, sidewall and upright versions, and can be supplied with different finishes, colors and print to blend in with almost any kind of surface.

Large open spaces with excessive ceiling heights, such as atriums, are protected by small **FIREKILL™** APS low pressure water mist sidewall nozzles. The unique nozzles can project a spray 13 meters from a single side to protect a maximum atrium width of 26 meters from opposing sides.

For fire protection of generator rooms, the system utilizes the **FIREKILL™** open low pressure water mist K6 nozzles. The robust nozzles effectively suppress fire in high hazard equipment while keeping water damage to electrical equipment to a minimum.



Model OH

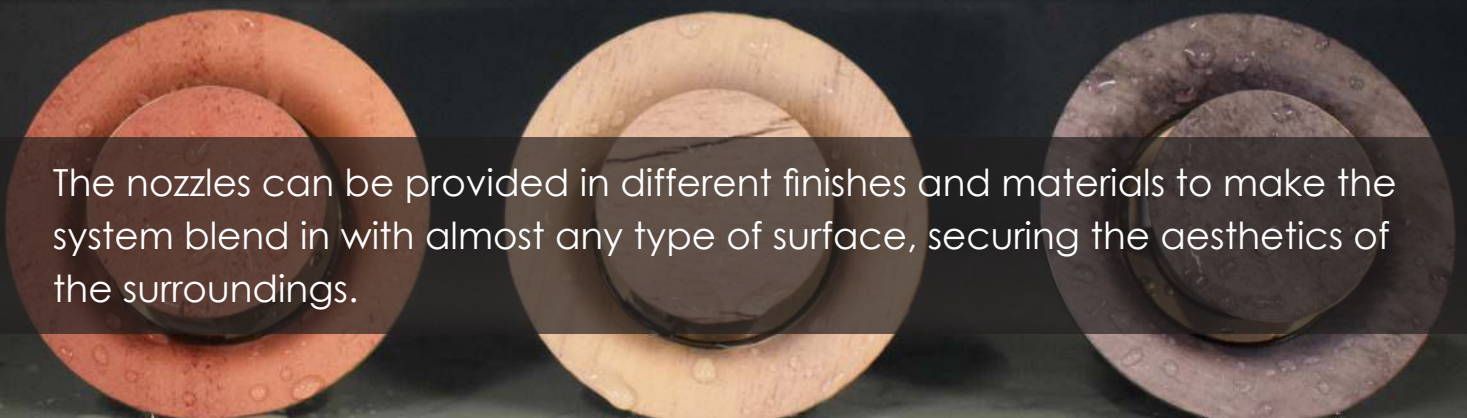


Model APS



Model K6

The nozzles can be provided in different finishes and materials to make the system blend in with almost any type of surface, securing the aesthetics of the surroundings.



FACTS ABOUT LOW PRESSURE WATER MIST

- Low pressure water mist systems can be designed, installed and maintained with the same skillset as conventional fire sprinkler systems.
- The low pressure water mist system offers an advantage over conventional fire sprinkler systems when it comes to water usage.
- Low pressure water mist systems use the same pressure class components as conventional sprinkler systems.
- Low pressure water mist systems are more robust and reliable than high pressure water mist systems as the system waterways and nozzle orifices are larger.
- Low pressure water mist systems require less electricity than conventional sprinkler systems and high pressure water mist systems.
- Low pressure water mist systems are approved to the same approval standards as high pressure water mist systems.

BENEFITS OF THE FIREKILL™ SYSTEM

Successfully tested and approved

The **FIREKILL™** low pressure water mist system is approved to cover complete commercial buildings from fire. The system complies with NFPA 750 and the European Standard 14972 for water mist systems.

Environmentally friendly

The **FIREKILL™** low pressure water mist system uses 60 - 90% less water compared to traditional fire sprinkler systems.

Firefighting without harmful substances!

The low pressure water mist system only uses potable water as suppression agent, which makes the system safe for people and the environment.

Cost effective, easy to install, and requires low maintenance

With the use of low water pressure and low water consumption the **FIREKILL™** low pressure water mist 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 traditional fire sprinkler systems but with fewer nozzles and smaller pipes, installation work can be done fast and easily saving time and money.

Less damaging

The minimal water usage makes the system economical while also minimizing the risk of water damage to the building and essential equipment.

Robust and reliable

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

Aesthetic fire protection

The **FIREKILL™** system can be delivered with nozzles in different paint and finishes to make the system blend in with almost any type of surface, securing the aesthetics of the surroundings. The nozzles can also be delivered with logo print.



APPROVALS

All our products are successfully tested by ISO17025 accredited fire test laboratories and 3. party approved to comply with the latest updates on international approval standards for water mist system components for fire protection.



FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

System Designation:	FIREKILL™ Occupancy Protection System using Model OH-SVO & OH-OS automatic nozzles
Design, Installation, Operation and Maintenance Manual:	FIREKILL™ Occupancy Protection System using Model OH-SVO & OH-OS automatic nozzles. Design, Installation, Operation and Maintenance Manual (DIMS) for protection of Non-Storage Occupancies, Hazard Category 1 (HC-1), Doc. No.: 0605-02-01, Issue Date: September 28, 2015

Prepared for:
VID FIRE-KILL APS
SVALBARDEVEJ 13
SVENDBORG
DK-5700
DENMARK

Manufactured at:
VID FIRE-KILL APS
SVALBARDEVEJ 13
SVENDBORG
DK-5700
DENMARK

FM Approvals Class: 5560

Approval Identification: 305338 Approval Granted: October 14, 2015

To verify the availability of the Approved product, please refer to www.spsvsa.com

Said Approval is subject to satisfactory field performance, continuing Surveillance, Audit, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.



David B. Fuller
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Member of the FM Global Group



FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Water Mist System

System Designation:	FIREKILL™ Total Flooding System Using Model KO Open Nozzles for the protection of machinery in enclosures with volumes up to, and including 152,000 ft ³ (4,270 m ³) at a maximum height of 50 ft (15.2 m)
Design, Installation, Operation and Maintenance Manual:	FIREKILL™ Total Flooding System Using Model KO Open Nozzles - Design, Installation and Maintenance (DIMM) Manual for protection of machinery and combustion turbines in enclosures, Doc. No. 110629-02-004, dated 10-10-2007

Prepared for:	VID FIRE-KILL APS SVALBARDEVEJ 13 SVENDBORG DK-5700 DENMARK
Manufactured at:	VID FIRE-KILL APS SVALBARDEVEJ 13 SVENDBORG DK-5700 DENMARK

FM Approvals Class: 5560

Approval Identification: 3061155 Approval Granted: December 19, 2017

To verify the availability of the Approved product, please refer to www.spsvsa.com

Said Approval is subject to satisfactory field performance, continuing Surveillance, Audit, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.



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Institut für Brandschutztechnik und Sicherheitsforschung

Approval Certificate for Protection of HC2-HC3 risks

Certificate No.: 322091501-1
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / SchD
Extension: 812

SYSTEM MANUFACTURER: VID FIRE-KILL APS, Svalbardvej 13, DK-5700 Svenborg

SYSTEM: Low Pressure Watermist System for HC2-HC3 risks

SCOPE OF CERTIFICATE: Automatic Low-Pressure Water Mist System system is Nozzle: OH-PX2
Applications: Non storage and manufacturing areas with ordinary combustibles, with plastic and ignitable liquids used or stored not in excess of incidental quantities. No plastic construction elements.
Non storage and manufacturing areas with ordinary combustibles with un-cartoned plastics and ignitable liquids not used or stored in excess of incidental quantities. No plastic construction elements.

APPLICABLE STANDARDS: EN 14972
FM 5560





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Institut für Brandschutztechnik und Sicherheitsforschung

Approval Certificate for Protection of OH1 risks

Certificate No.: 322091501-2
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / SchD
Extension: 812

SYSTEM MANUFACTURER: VID FIRE-KILL APS, Svalbardvej 13, DK-5700 Svenborg

SYSTEM: Low Pressure Watermist System for OH1 risks


SCOPE OF CERTIFICATE: Automatic Low-Pressure Water Mist System system is Nozzle: OH-SVO
Applications: Apartments, atriums, churches, concealed spaces, gymnasiums, hospitals, hotels, metalworking shops with non-hydraulic cutting operations, mineral processing (such as: glass, cement, ore treating, gypsum processing, etc.), museums, nursing or convalescent homes, offices, restaurant seating areas, schools and universities classrooms, unused atria

APPLICABLE STANDARDS: EN 14972
FM 5560





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Approval Certificate for Protection of OH1 risks

Certificate No.: 322091501-3
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / SchD
Extension: 812


SYSTEM MANUFACTURER: VID FIRE-KILL APS, Svalbardvej 13, DK-5700 Svenborg

SYSTEM: Low Pressure Watermist System for OH1 risks


SCOPE OF CERTIFICATE: Automatic Low-Pressure Water Mist System system is Nozzle: OH-SVO
Applications: Offices, Public areas of low fire load, hotel rooms, rooms in hospitals, care homes, schools, halls, accommodation areas as well as any other comparable risks.


APPLICABLE STANDARDS: EN 14972





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Approval Certificate for Protection of OH2 risks

Certificate No.: 322091501-4
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / SchD
Extension: 812


SYSTEM MANUFACTURER: VID FIRE-KILL APS, Svalbardvej 13, DK-5700 Svenborg

SYSTEM: Low Pressure Watermist System for OH2 risks


SCOPE OF CERTIFICATE: Automatic Low-Pressure Water Mist System system is Nozzle: OH-LPS
Applications: Non-automatic, fully enclosed garages, underground garages, car park garages


APPLICABLE STANDARDS: EN 14972





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Approval Certificate for Protection of Atrium risks


Certificate No.: 322092800-1
Certificate date: 28th September 2022
Engineer: Wolfgang REICHOR / SchD
Extension: 812


SYSTEM MANUFACTURER: VID FIRE-KILL APS, Svalbardvej 13, DK-5700 Svenborg

SYSTEM: Low Pressure Watermist System for Atrium risks


SCOPE OF CERTIFICATE: Automatic Low-Pressure Water Mist System
System: Model APS Type A
Applications: Atriums with a max. width of 16 m
System: Model APS Type B
Applications: Atriums with a max. width of 20 m
System: Model APS Type C
Applications: Atriums with a max. width of 26 m
System: Model APS Type D
Applications: Atriums with a max. width of 5 m
Risk for all systems: Large enclosures with low fire load situated at floor-level.

APPLICABLE STANDARDS: EN 14972





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