



Hotel Low Pressure Watermist Fire Protection



HOTELS

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.

Hotels are busy places full of potential fire hazards, and hotel fires do not just present a serious risk to people's safety but also to the hotel property and business operations - and hotel fires are not rare events. Each year fire incidents in hotels are causing large financial losses, property damage, and temporary business closure.

The primary function of a hotel is accommodation, however, many modern hotels function as multipurpose facilities and offer extra services such as restaurants, bars, conference rooms, business centers, health clubs, and laundries.

Most hotel fires originate in the hotel kitchen and involve cooking equipment, but also electrical failure and careless smoking in rooms are the leading causes of fire in hotels. Hotels are occupied by guests who most likely are unfamiliar with the building and its escape routes and exits, which makes exiting during a fire extra challenging.

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

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



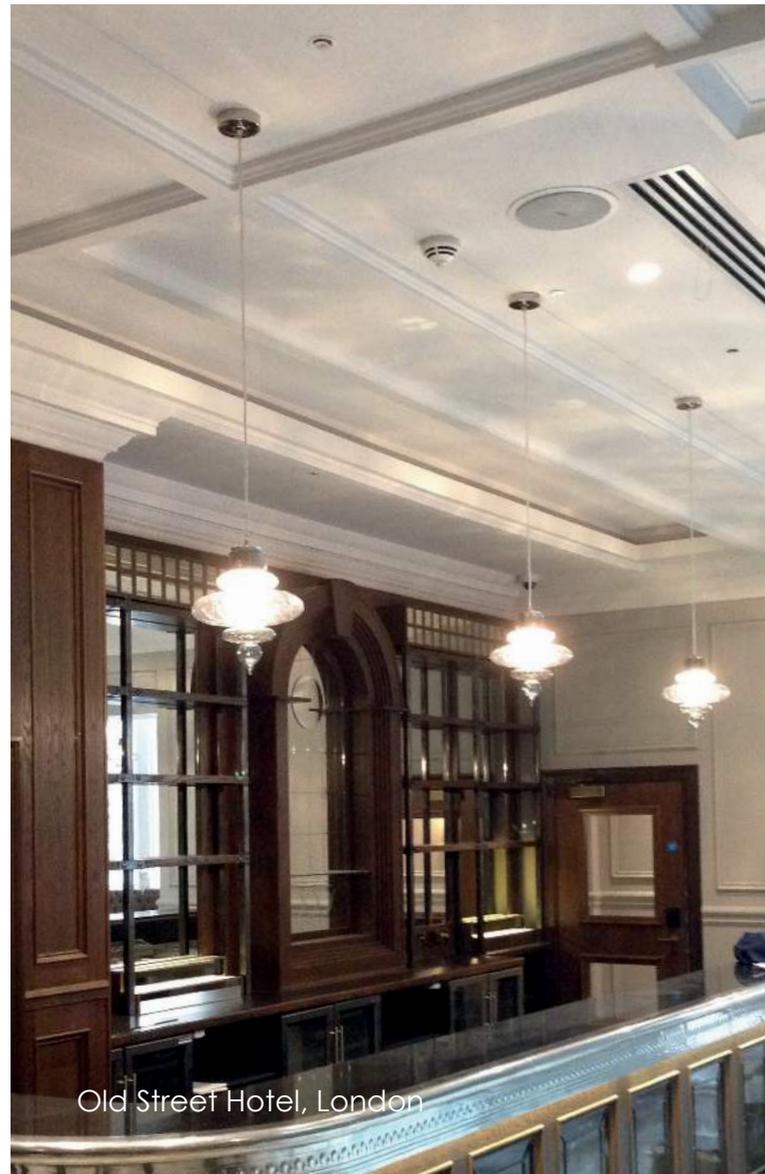
COMPLETE FIRE PROTECTION

The VID FIREKILL low pressure watermist system offers complete protection for all types of hotels while keeping water damage and operation downtime to a minimum. The system only uses potable water ensuring a safe environment for guests and hotel employees.

The **FIREKILL™** low pressure watermist system provides complete fire protection for hotels by combining different types of **FIREKILL™** nozzles individually suited for specific areas and hazard groups.

- Reception and lobby areas
- Hotel rooms and suites
- Conference rooms
- Corridors
- Restaurants
- Kitchens
- Retail shops and kiosks
- Storage rooms
- Technical rooms and server rooms
- Storage rooms and laundry rooms
- Parking garages

The low water and power requirements, the flexibility, and the compact design of the low pressure watermist system makes it an ideal solution for installation in both new and existing hotels.



Old Street Hotel, London



Scan code to explore the solution for hotels.

THE FIREKILL™ SYSTEM

The **FIREKILL™** system for protection of hotels features uniquely designed low pressure watermist 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 watermist 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 watermist 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 watermist 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 VID FIREKILL low pressure watermist system effectively protects our guests and property while minimizing water damage."

- Eric Toren, owner Hotel Twenty Seven, Amsterdam

Hotel Twenty Seven, Amsterdam

FACTS ABOUT LOW PRESSURE WATERMIST

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

BENEFITS OF THE FIREKILL™ SYSTEM

Successfully tested and approved

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

Environmentally friendly

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

Firefighting without harmful substances!
The low pressure watermist 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 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 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.



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 watermist system components for fire protection.



Certificate of Compliance

This certificate is issued for the following:

System Designation:	FIREKILL™ Occupancy Protection System using Model OH-VSO & OH-OS automatic nozzles
Design, Installation, Operation and Maintenance Manual:	FIREKILL™ Occupancy Protection System using Model OH-VSO & 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

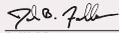
FM Approvals Class: 5560

Approval Identification: 3053358 Approval Granted: October 14, 2015

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

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





David B. Fuller
V.P. Manager - Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA



Certificate of Compliance

This certificate is issued for the following:

Water Mist System

System Designation:	FIREKILL™ Total Flooding System Using Model K6 Open Nozzles for the protection of machinery in enclosures with volumes up to, and including, 100,000 ft ³ (2,831,684 m ³) at a maximum height of 20 ft (6.1 m)
Design, Installation, Operation and Maintenance Manual:	FIREKILL™ Total Flooding System Using Model K6 Open Nozzles Design, Installation and Maintenance (DIMM) Manual for protection of machinery and combustion turbines in enclosures, Doc No 110629-02-004, dated 10-16-2007

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

Manufactured at:
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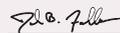
FM Approvals Class: 5560

Approval Identification: 3061155 Approval Granted: December 19, 2017

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

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





David B. Fuller
V.P. Manager - Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA



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 / S+D
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-carbonized 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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IBS - Institut für Brandschutztechnik und Sicherheitsforschung GmbH in Berlin, B.R.
Abteilungsleiter: Prof. Dr. Ingrid Isenhardt und Dr. Barbara Glaser
Präsidentin: Dr. Ingrid Isenhardt
Tel: +49 30 707 206 77 Fax: +49 30 707 206 7111 E-Mail: info@ibs.de, www.ibs.de
IBS-AG: Berlin, Postfach 11 01 15, D-10785 Berlin, Germany



Institut für Brandschutztechnik
und Sicherheitsforschung

Approval Certificate for Protection of OH1 risks

Certificate No.: 322091501-2
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / S+D
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-VSO
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 attics

APPLICABLE STANDARDS: EN 14972
FM 5560



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Abteilungsleiter: Prof. Dr. Ingrid Isenhardt und Dr. Barbara Glaser
Präsidentin: Dr. Ingrid Isenhardt
Tel: +49 30 707 206 77 Fax: +49 30 707 206 7111 E-Mail: info@ibs.de, www.ibs.de
IBS-AG: Berlin, Postfach 11 01 15, D-10785 Berlin, Germany



Institut für Brandschutztechnik
und Sicherheitsforschung

Approval Certificate for Protection of OH1 risks

Certificate No.: 322091501-3
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / S+D
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-SW2
Applications: Offices, Public areas of low fire load, hotel rooms, rooms in hospitals, care homes, schools, flats, accommodation areas as well as any other comparable risks.

APPLICABLE STANDARDS: EN 14972



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Abteilungsleiter: Prof. Dr. Ingrid Isenhardt und Dr. Barbara Glaser
Präsidentin: Dr. Ingrid Isenhardt
Tel: +49 30 707 206 77 Fax: +49 30 707 206 7111 E-Mail: info@ibs.de, www.ibs.de
IBS-AG: Berlin, Postfach 11 01 15, D-10785 Berlin, Germany



Institut für Brandschutztechnik
und Sicherheitsforschung

Approval Certificate for Protection of OH2 risks

Certificate No.: 322091501-4
Certificate date: 28th August 2022
Engineer: Wolfgang REICHOR / S+D
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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Abteilungsleiter: Prof. Dr. Ingrid Isenhardt und Dr. Barbara Glaser
Präsidentin: Dr. Ingrid Isenhardt
Tel: +49 30 707 206 77 Fax: +49 30 707 206 7111 E-Mail: info@ibs.de, www.ibs.de
IBS-AG: Berlin, Postfach 11 01 15, D-10785 Berlin, Germany



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und Sicherheitsforschung

Approval Certificate for Protection of Atrium risks

Certificate No.: 322092802-1
Certificate date: 28th September 2022
Engineer: Wolfgang REICHOR / S+D
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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Tel: +49 30 707 206 77 Fax: +49 30 707 206 7111 E-Mail: info@ibs.de, www.ibs.de
IBS-AG: Berlin, Postfach 11 01 15, D-10785 Berlin, Germany



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VID FIREKILL
Svalbardvej 13
5700 Svendborg, DK
Phone: +45 6262 1024
www.vidfirekill.com
sales@vidfirekill.dk