



**Global Risk Consultants®**

**München  
24. November 2015**

A TÜV SÜD Company

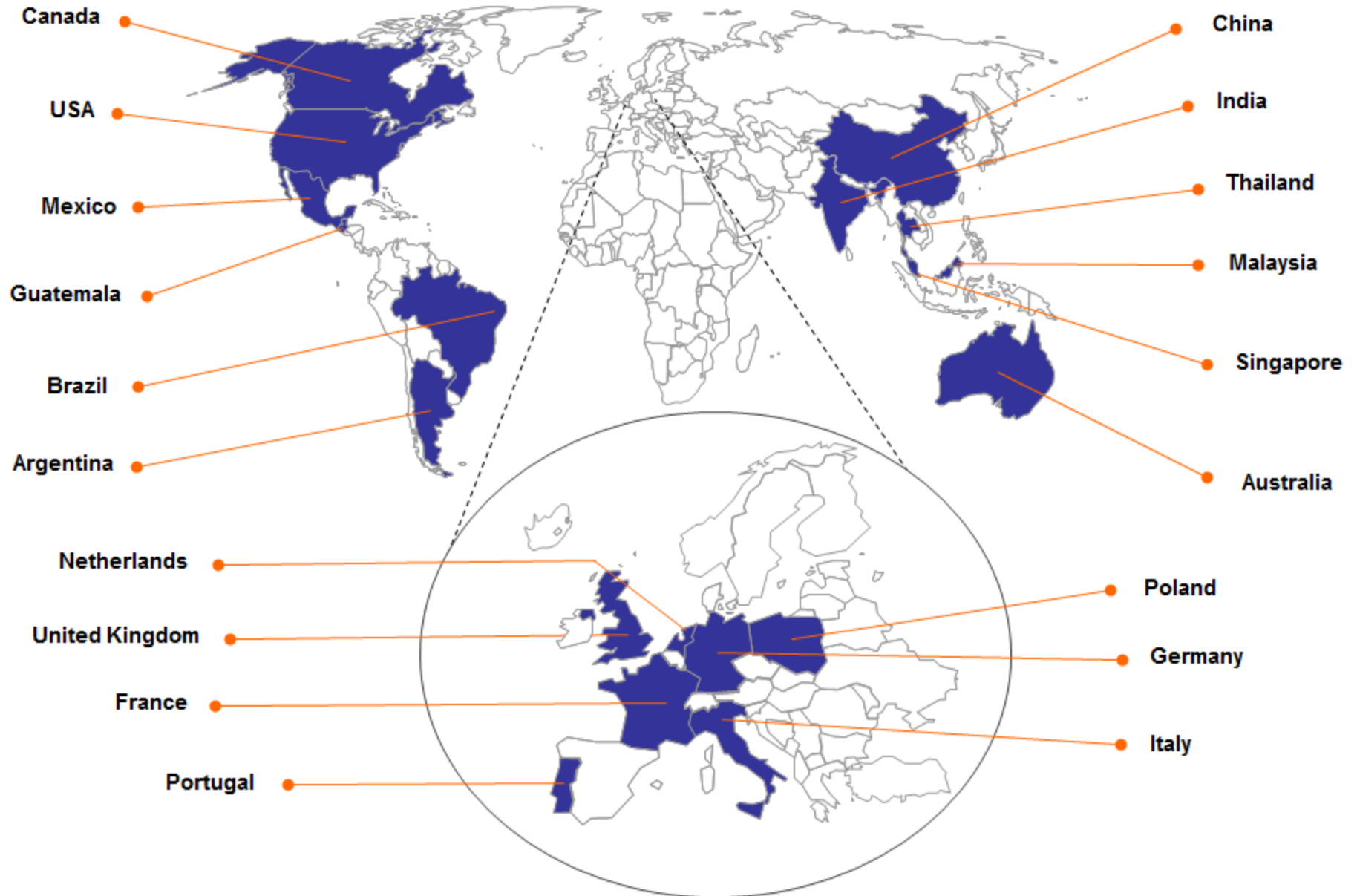


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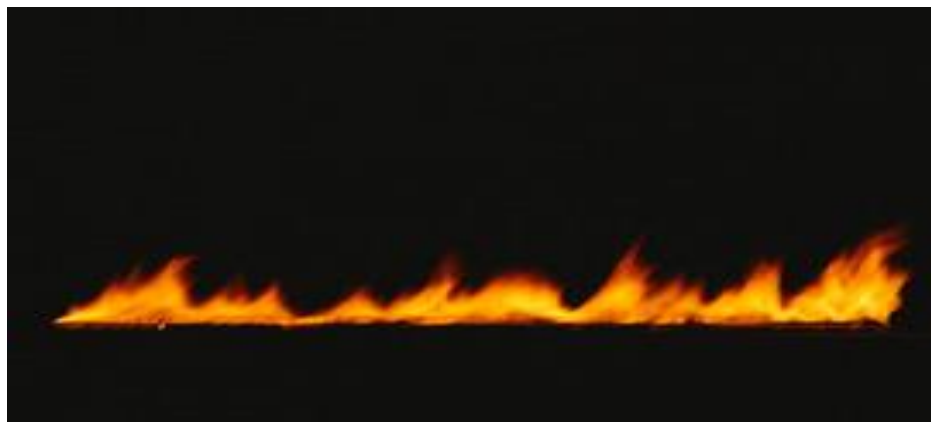
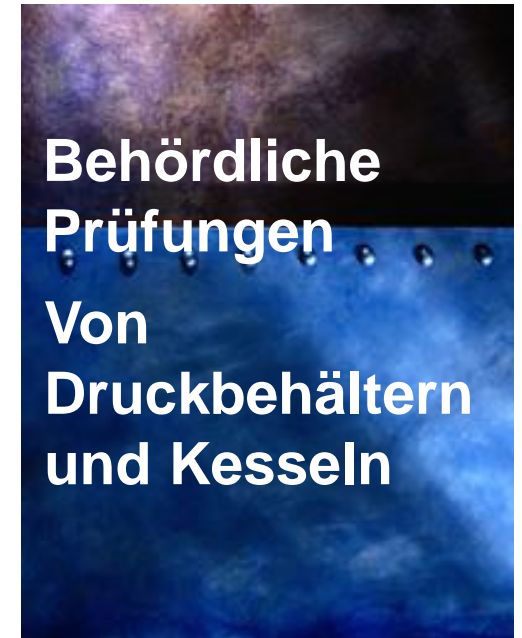
- **Über GRC - Serviceleistung**
- **Schadenverhütung und Wassernebel**
  - **Brandschutz - Beurteilung von stationären Feuerlöschanlagen**
  - **Brandschutz - Beurteilung von stationären Wassernebellöschanlagen**
- **Anwendungen**
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# Weltweites Netzwerk



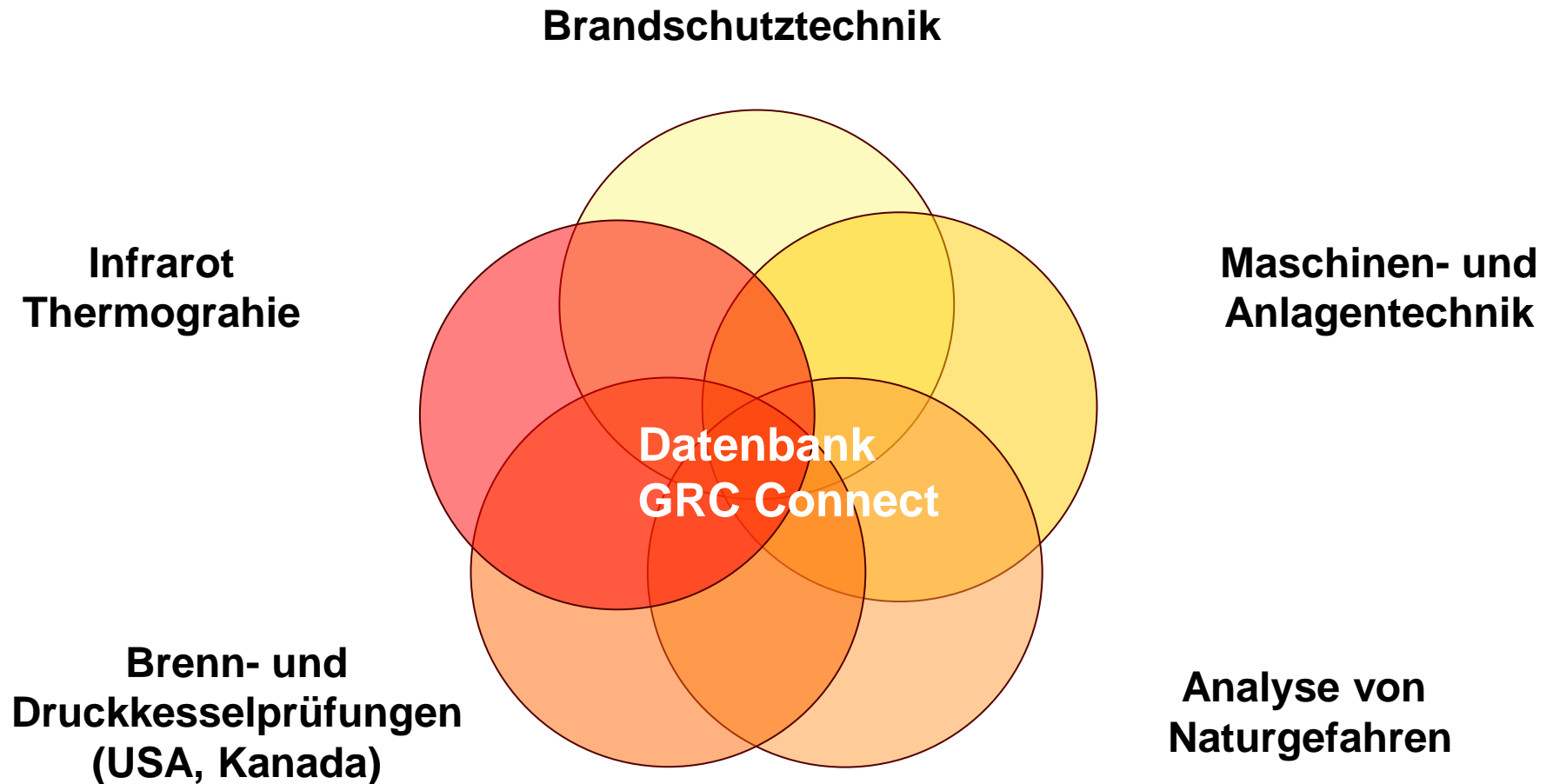
# Experten in der Schadenverhütung

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# Integrierte Serviceleistung

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# Brandschutz

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- **Beurteilung des**
  - **Anlagentechnischen Brandschutzes**
  - **Organisatorischen Brandschutzes**
  - **Baulichen Brandschutzes**
  - **Nachbarschaftsgefährdung**

# **Wassernebellöschanlagen - Regelwerke**

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- ***VdS 3188 Wassernebel-Sprinkleranlagen und Wassernebel-Löschanlagen (Hochdruck-Systeme)***
- ***EN 14972 Ortsfeste Brandbekämpfungsanlagen – Feinsprüh-Löschanlagen***
- ***NFPA 750 Water Mist Fire Protection Systems***
- ***FM Loss Prevention Data Sheets 4-2 „WATER MIST SYSTEMS“***

# **Wassernebel Anwendungen FM**

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- **Continuous Wood Board Presses**
- **Protection of Combustion or Steam Turbines in Enclosures with Volumes > 9175 ft<sup>3</sup> (260 m<sup>3</sup>)**
- **Protection of Data Processing Equipment Rooms/Halls – Above-Floor Protection**
- **Protection of Industrial Oil Cookers**
- **Protection of Non-Storage Occupancies, Hazard Category 1 (HC-1).**



# Wassernebel Anwendungen FM

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Division: Fire Protection Keyword(s):   Product  Company  Text Search

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Guide Content Search Results

Fixed Extinguishing Systems  Water Mist Systems

## Water Mist Systems

Water Mist systems are **special protection systems** designed to generate a spray or fog of small water droplets. Fire extinguishment through water mist application is controlled by two main mechanisms; flame cooling and reduced oxygen concentration by displacement of air from the water vapour created. Ensure the water mist system will perform as intended by:

- Consulting FM Global Property Loss Prevention Data Sheet 4-2, Water Mist Systems and the occupancy-specific property loss prevention data sheets listed in Appendix C.4 of FM Global Property Loss Prevention Data Sheet 4-0, Special Protection Systems, prior to design, installation and use of these systems.
- Insureds of FM Global contacting their local FM Global office to discuss proposed use of water mist systems for protection of any enclosure or equipment.
- Verifying the required design criteria, as it may vary for each application type and depending upon maximum design parameters, may vary among water mist system manufacturers.
- Designing these special protection systems to provide protection for a specific duration within the limitations described in the manufacturer's design and installation manual identified in the Approval Guide listing.
- Consulting the FM Global occupancy-specific property loss prevention data sheet for discharge duration recommendations.
- Using compatible FM Approved controls and detection, as necessary. (See AUTOMATIC RELEASES FOR EXTINGUISHING SYSTEMS AND OTHER FIRE PROTECTION EQUIPMENT under ELECTRICAL SIGNALING.)
- Using automatic sprinkler protection in conjunction with the water mist system when recommended by the occupancy-specific FM Global Property Loss Prevention Data Sheet.
- Applying this equipment by FM Global insureds to the limitations specified above and FM Global's acceptance of plans prior to installation.

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Quelle: <http://www.approvalguide.com>

# Wasserdnebel Anwendungen VdS

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- OH 1 / OH 2 / OH 3
- Kabelkanäle
- Maschinenräume bis 500m<sup>3</sup>
- Lagern und Produktionsstätten mit brennbaren Flüssigkeiten.
- Transformatoren
- Mechanischen Rolltreppen
- Turbinen

# Wassernebel Anwendungen VdS

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Deutsch 

Suche



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- Produkte
- Dienstleistungen
- Neue Schutzkonzepte mit Löschanlagen
- ▶ Verzeichnisse
- VdS-Anerkennungen
- EN-Zertifizierungen
- SES-Zertifizierungen

## VdS-anerkannte Produkte für Wasser-Löschanlagen

[zurück](#)

### Hochdruck-Feinsprüh-Feuerlöschsysteme

Stand: 23.11.2015

#### Anerkennungsinhaber:

- AQUASYS Technik GmbH
- Danfoss Semco A/S Fire Protection
- FOGTEC Brandschutz GmbH & Co. KG
- LPG Técnicas en Extinción de Incendios, S.L.
- Marioff Corporation Oy
- Marioff Corporation Oy
- Minimax GmbH & Co. KG
- RG SYSTEMS, S.L.

Quelle: <http://www.vds.de>

# Wassernebel Beurteilung

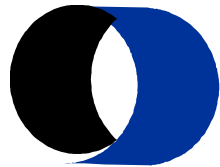
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- **Art der Anlage (Objekt-Raum-Zonenschutz)**
- **Aktivierung der Anlage (BMA)**
- **Volumenbegrenzung**
- **Ventilationsverhältnisse**
- **Behälterbegrenzung**
- **Pumpendruck / Systemdruck**
- **Getesteten Szenarien**

# Wassernebel Beurteilung

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- **Sprühbehinderungen**
- **Hydraulische Berechnungen**
- **Maximale Deckenhöhe**
- **Maximaler Düsenabstand**
- **Düsentyp**



# Global Risk Consultants®

**Global Risk Consultants Ltd.  
Philipp Kraucher**

**Rüdesheimer Strasse 119, Geb. A  
64285 Darmstadt  
Tel: +49 6151 600 710**

**c/o Home Office:  
Tel: +49 211 229 59 319**

**[philipp.kraucher@globalriskconsultants.com](mailto:philipp.kraucher@globalriskconsultants.com)**