

Wind Turbines | Electric Cabinets | Transformers | Others

Revolutionary Fire Suppression Systems

Made in Germany



Non toxic eco-friendly gas systems



















Smart Selective Fire Protection

Fewer cylinders are required!

required without the use of chemical gases, water, foam, or powder.

(flammable liquids), and C (flammable gases). Argon is also the only suitable extinguishing gas for class D (metal fires).



Detexline Release Valve (UNIQUE)

Directional Valve (UNIQUE)

Spy Detector (UNIQUE)

- Thermo-pneumatic detection.Possibility of multiple temperatures in one system.



protecfire (

Silent Gas Nozzle (UNIQUE)







One Single Pipeline System





Protection for Multiple Areas

Automatic, Sectioned Control **Powered by the Directional Valve**





protectire detexAr - Smart Fire Protection for Electrical Cabinets

The protecfire detexAr is a next-generation argon gas fire suppression system that works differently from conventional systems. Thanks to its directional valve technology, the system releases the extinguishing agent only where a fire is detected – protecting the affected cabinet without wasting agent on other areas.

Each unit combines detector, extinguisher, and directional valve in a single compact device, making installation simple and space-efficient.

Unlike traditional systems, the cylinder sizing is based only on the largest cabinet, not on all cabinets in the area. This reduces the number of cylinders required while ensuring full protection.

When a fire is detected, the system targets the extinguishing agent precisely where it's needed, maximizing effectiveness and minimizing downtime.

Efficient. Safe. Smart. protecfire detexAr.



Available in: 5L, 10L, 20L, <u>50L</u>







detex An2

Argon / Nitrogen Cartridges System

Special Applications

DETEX AN² Inert Gas Fire Protection Systems combat fires by supplying argon and nitrogen to reduce the oxygen content in the protected space to below 15%.

They are particularly suitable for protecting small rooms up to 2m³ with sensitive or high-value installations, where residue-free extinguishing is required without the use of chemical gases, water, foam, or powder.

Inert gases provide excellent extinguishing performance for fires of class A (solids), B (flammable liquids), and C (flammable gases).

Argon is also the only suitable extinguishing gas for class D (metal fires).







The innovative design of DETEX AN² Inert Gas Fire Protection Systems enables an exceptionally compact and space-efficient installation. Both extinguishing agents are stored separately in fully welded 2-litre steel tanks at 250bar.

Thanks to the carefully selected dimensions of the steel cylinders (80mm in diameter and approximately 600mm in total length), installation is possible even in very confined spaces. The 250bar technology also allows for reliable operation under extreme temperature conditions, ranging from -60°C to +80°C.







Can be installed in:

- Any Position/Angle
- Moving Parts





detex An2

Up to 10 Years Without Maintenance

The welded steel tanks require no maintenance and can remain in operation for up to 10 years. Once activated, the tank is replaced with a new one, and the system is fully operational again.

The entire system is made of corrosion-resistant materials. Its durability in saline environments, such as offshore wind turbines, is a proven advantage.



Unique Technology

Requiring no electricity, the system is always operational, regardless of circumstances.

Considering the high maintenance costs of offshore wind turbines, this solution proves to be the most reliable, durable, and economical.

Install and forget—no periodic maintenance, such as gas pressure checks, is required.





Common Technologies for Both Systems



One single pipeline for: detection & extinguishing

- protecfire's patented detexline technology enables a single pipeline installation for both detection and extinguishing. This reduces installation time, costs and equipment.
- Constricted application areas also benefit from this type of pipeline, as it requires less space.
- This technology is significantly faster and simpler during assembly and disassembly, as well as during inspection.



Silent Gas Nozzle

- Reduces inert gas discharge noise below dangerous noise levels.
- Excellent discharge efficiency
- The smallest, most robust and quietest of its kind
- 100% stainless steel



Directional Valve

The system redirects the extinguishing agent only to the area where the detector was triggered, allowing for accurate suppression and minimal agent consumption.



Thermo-pneumatic detection

- Unique patented detector
- No electricity required
- High-grade stainless steel
- Response speed: Ultra Fast Response RTI 12
- Available detection temperatures:
- 57°C | 68°C | 79°C | 93°C | 110°C | 141°C | 182°C | 230°C | 260°C

Ideal for protecting valuable assets and sensitive equipment.

- Excellent extinguishing in hazardous areas with high fire load or hidden fire.
- Avoids long downtime and costly service interruptions.
- Particularly suitable for application areas with people present

Certifications of protecfire products:





Economical to purchase

Due to very low maintenance over a long period of time. Easy to project and interpret.



Flexible and robust

Making it ideal for extreme conditions of use, e.g. if underground mining.



Easy installation

Patented technology: **protecfire's patended detexline technology** combines detection and extinguishing. The assembly requires very few tools, as the components share measurements and typology.





environmentally friendly

detex An2 detex Ar

NON-TOXICSAFE FOR USE IN OCCUPIED AREAS

Due to the reduction of oxygen levels to 15% by the extinguishing agent, any persons present should be alerted by optical and/or audible alarms and encouraged to leave the affected area both before and after extinguishing.

Argon and Nitrogen – Safe & Sustainable

Naturally non-toxic and non-conductive, argon and nitrogen offer unmatched environmental sustainability. Readily available worldwide, they ensure safe, reliable, and eco-friendly fire protection.



Automatic Fire Suppression Systems for Electrical Cabinets, Data Centers & Critical Electronics





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