

FIRE PROTECTION IN SUB-ZERO TEMPERATURES.

OxyReduct®

Active fire prevention system for deep freeze storages and cold storage warehouses



The challenge

FIRE PROTECTION UNDER EXTREME CONDITIONS.

Nowadays all over the world frozen and fresh food must be available around the clock. It is therefore essential that the delivery chain is not interrupted at any point. Deep freeze storages and warehouses are built and operated based on profitability while also taking into account issues of sustainability and globalisation. Central and fully automated logistics centres are gaining in importance resulting in increased demand for active fire protection that prevents the risk of fire. Even smoke, soot or extinguishing water contaminated with antifreeze agents cause time-critical interruptions in operation, loss of goods and technical damage.



Minimise risks successfully

INNOVATIVE FIRE PROTECTION SOLUTIONS.



"We built the largest fully automated high-bay cold storage warehouse in Germany. The protection objective was very comprehensive. The resulting solution speaks for itself: In our high-bay cold storage warehouse, nothing can burn thanks to active fire prevention with oxygen reduction from WAGNER. Thanks to the high energy efficiency of the VPSA technology installed, we not only score points in term of safety, we also keep operation costs down."

Georg Grewe, Managing Director of KLM Logistik



"Thanks to WAGNER, we have a fire prevention system that protects us optimally from the consequences of fire. We were particularly impressed by the active fire prevention concept. Sprinkler systems commonly used in the USA only react when fire has already broken out – but by then, it's usually too late! The OxyReduct® system from WAGNER ensures that fire can't break out and spread at all at our site."

Burnie Taylor, General Manager Preferred Freezer







"Our products and logistics processes are reliably protected with the active fire prevention. The new VPSA technology also saves operating costs – while still maintaining a high safety standard."

Norbert Meitinger, Managing Director EDNA International GmbH

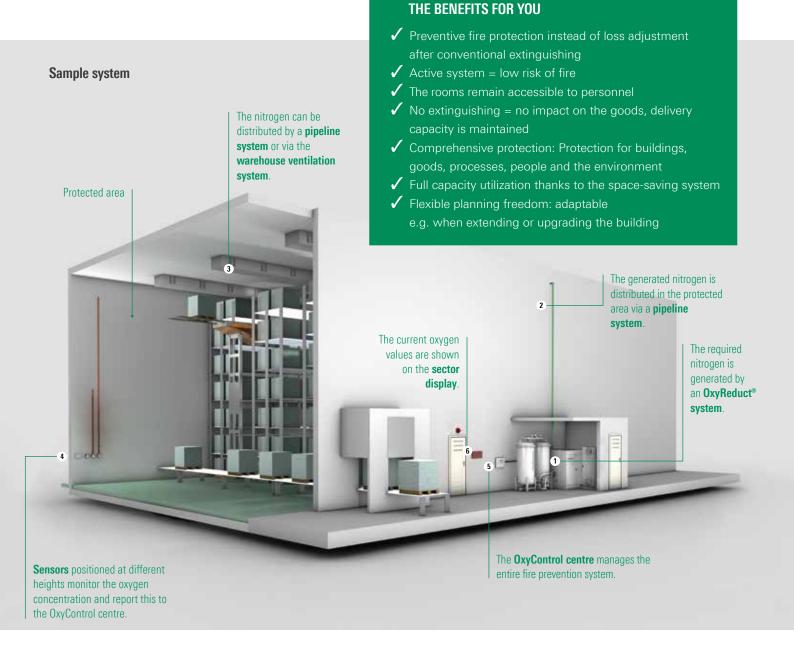




The solution

ACTIVE FIRE PREVENTION - AS SIMPLE AS IT IS INGENIOUS.

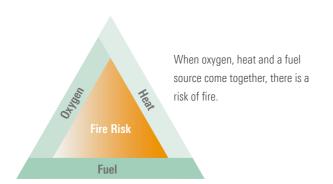
The OxyReduct® active fire prevention system eliminates from the outset the risk of fire breaking out or spreading. The system reduces the oxygen content in the air in the protected area to a level where the risk of fire is minimised significantly, but the protected area can still be accessed by personnel. The benefits for you: OxyReduct® not only protects your goods, your technical systems and your personnel from the consequences of fire, but also from the damage caused by water and other extinguishing agents.

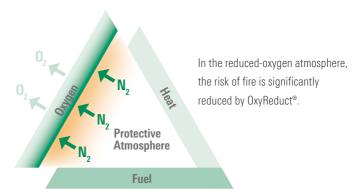


The OxyReduct® principle

LESS OXYGEN, MORE SAFETY.

Releasing nitrogen into the protected area lowers the oxygen concentration to a level just below the specified ignition threshold for the materials present. OxyReduct® thus creates a protective atmosphere where the risk of a fire breaking out can almost be ruled out completely.





Oxygen reduction via nitrogen

Using nitrogen as an inert gas has significant benefits:

- With 78.09 vol%, nitrogen is the main component of our normal ambient air.
- It can be generated on-site as required and does not need to be stored.
- Because nitrogen is non-toxic and free from pollutants, the protected area can be accessed by personnel.
- The physical properties of nitrogen guarantee a homogeneous distribution in the protected area.



Officially recognised solution, proven hundreds of times over

Ensuring fires can't start at your premises: the active fire prevention system OxyReduct®.







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WAGNER sets standards in fire protection – with innovative and comprehensive solutions

Fire detection and alarm systems

Very early fire detection systems (TITANUS®)

Active fire prevention (OxyReduct®)

Fire extinguishing (FirExting®)

Hazard management (VisuLAN®)

