MINIMAX
Experts in fire protection



Oxeo Refill System

Replenish your fire protection. Anywhere. Anytime.



Refilling

is better than replacing.

Replacing a gas cylinder with a new one costs time and money – and the more remote the location, the higher the cost. The Oxeo Refill system offers a simpler solution: After activation, it immediately restores the fire suppression system to operational readiness, reduces operating costs through simplified gas management, and gives planners more flexibility when designing new fire protection systems.

This is particularly worthwhile when replacement is labor-intensive, connectivity is poor, systems are installed in hard-to-reach locations, or system availability requirements are very high.
At its core, Oxeo Refill consists of four components: a **nitrogen generator** that produces the required extinguishing agent, a **control unit** that monitors and manages the refilling process, a **media station** that serves as an interface, and a special **refill valve** through which the gas cylinders are filled directly. Whether following a fire suppression operation, a functional test, or a minor leak: as soon as the cylinders in the battery are partially or completely empty, the system simply refills them – on-site, without cylinder replacement, and without weeks of downtime for the fire suppression system. This keeps downtime to a minimum and allows operations to continue.



Connection via media station → **Automated rapid system test** → **Leak Test, Inerting** → **Cylinder filling** → **Analysis and evaluation** → **Standby mode or shutdown**

The ideal design **for every requirement**.

Option 1: Permanently Installed Nitrogen Generator

The nitrogen generator is permanently installed in the building and connected directly to the cylinder bank via piping. It produces and stores the extinguishing agent on-site and immediately refills the cylinders after they have been partially or completely emptied – providing unlimited availability without downtime. The ideal solution for large-scale systems with particularly high availability requirements, such as server rooms.



Option 2: Nitrogen Generator in a Mobile Container

If there is no space in the building, the nitrogen generator can simply be moved into a mobile container – roadworthy and therefore transportable beyond the company premises. It produces and stores practically unlimited amounts of extinguishing agent and supplies multiple fire suppression systems simultaneously as needed. This makes it suitable for offshore platforms as well as for use as a mobile nitrogen refilling station in the port. Upon request, Minimax can include the container directly in the service contract.



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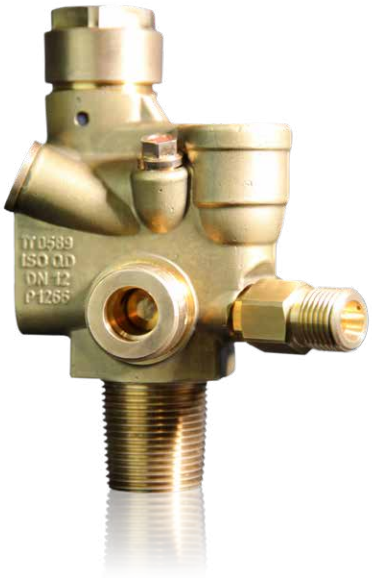
Option 3: Pressure-Boosting Compressor with Control Unit

For smaller systems, a compressor with its own control unit is often sufficient. It is connected to the fire suppression system via the media station – mobile and capable of supplying multiple fire suppression systems at the same location. This applies even when gas mixtures such as IG55 or IG541 are used instead of pure nitrogen, as the extinguishing agent is already stored in gas cylinders. This compact solution is particularly suitable for applications with limited space, minimal refilling requirements, or when an existing system needs to be expanded.



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One simple control system for everything: Everything is controlled via a touchscreen – or optionally, remotely – without requiring any technical expertise. Filling begins in just a few simple steps, and the operator is guided through each step of the process. All connected fire suppression systems can be selected: Oxeo inert gas systems, gas-powered foam systems such as CAFS or DIFF, as well as water-based fire suppression systems like Minifog ProCon XP – including those that use more than just pure nitrogen. The entire filling process is continuously monitored, and the legally required filling log is generated automatically.



Ready for Refilling – The Oxeo Refill Valve

The **Oxeo Refill Valve** makes the operation and maintenance of gas, foam, and water fire suppression systems significantly easier: Thanks to an integrated refill port, the cylinders can be refilled immediately after discharge, rather than having to go through the time-consuming process of replacing them. It is suitable for systems with operating pressures up to 300 bar. The valve's quality and performance are certified by VdS, and FM approval is pending. It is also available as a retrofit kit for existing systems, eliminating the need for costly modifications to the existing fire suppression system.

Comprehensive **Services** for Operators.

We support projects from the initial concept through to maintenance – all from a single source:

- **Planning & Engineering:** certified personnel, even for special customer requirements
- **Manufacturing:** consistently high quality in accordance with Minimax standards
- **Testing:** every system is checked internally before it is released to the customer
- **Installation, Commissioning & Service:** certified technicians on site
- **Spare Parts Supply:** guaranteed, even over long project durations
- **Modernization:** we keep your fire suppression system up to date with the latest technology

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