

T-GENOX

Tactical Portable Generator of Oxygen



TACTICAL
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T-GENOX (Tactical Portable Generator of Oxygen) is a self-contained, portable oxygen generation unit engineered for demanding field and military environments.



Manufactured in full compliance with international production and NATO military standards, T-GENOX delivers a dependable on-site oxygen supply solution for both medical and tactical missions.

Using advanced multi-modular PSA (Pressure Swing Adsorption) technology, T-GENOX produces high-purity oxygen directly from ambient air, providing a constant, contamination-free supply in any deployment scenario.

When required, T-GENOX can operate as part of a turnkey field system with the T-FILLOX cylinder filling unit, creating a complete autonomous oxygen generation and distribution capability for remote, combat, and disaster-response operations.

Performance & Specifications

- Oxygen Capacity: 20 L/min (supports 2–4 bed medical systems)
- Oxygen Purity: 93% $\pm$ 3%
- Power Supply: 220V AC, single phase
- Operating Pressure: up to 4 bar
- Energy-efficient and lightweight portable design
- Compliance: MIL-STD-1330

Operational Advantages

- Fully autonomous oxygen production
- Eliminates heavy cylinder transport and recurring logistics
- Reduced environmental footprint compared to delivered gas
- No storage risks from high-pressure or cryogenic systems
- Ideal for deployment in remote, disaster, and combat environments





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T-FILLOX

Tactical Portable Filling Unit of Oxygen

T-FILLOX (Tactical Portable Filling Unit of Oxygen) is a compact, field-deployable oxygen cylinder filling system designed to operate seamlessly with the T-GENOX oxygen generator or other compatible oxygen sources.

Built to international and NATO standards, T-FILLOX provides safe, efficient, and mobile high-pressure oxygen cylinder refilling for medical, defense, and emergency operations.

Engineered for rugged field use, it delivers reliable high-pressure oxygen filling performance while maintaining low power consumption and exceptional portability.

Its Plug-and-Play configuration enables rapid deployment without installation or calibration, making it ideal for fast-response and time-critical missions. T-FILLOX integrates effortlessly with T-GENOX, forming a complete autonomous on-site oxygen generation and filling capability for remote, combat, and disaster-response environments.



Performance & Specifications

- Filling Rate: 20 L/min (fills a 2 L cylinder in approx. 15 minutes at 150 bar)
- Operating Pressure: up to 207 bar
- Power Supply: 220V AC, single phase
- Compatible with standard medical & industrial oxygen cylinders
- Energy-efficient, compact, and field-portable design
- Corrosion-resistant, impact-protected enclosure
- Compliance: MIL-STD-1330

Operational Advantages

- Enables on-site high-pressure oxygen cylinder filling
- Eliminates dependence on centralized filling facilities
- Removes recurring cylinder logistics and transport risks
- Reduces environmental impact with on-site refilling
- Seamless integration with T-GENOX and other oxygen sources
- Supports continuous supply for remote, disaster, and combat operations

