OXYGEN RENEWAL AND CO2 REMOVAL SYSTEM FOR BUNKERS AND SHELTERS

3. BENEFITS OF THE SYSTEM

3.1 IMPROVED AIR QUALITY

- **Healthy Environment:** Maintains oxygen levels between 19.5% and 23.5%, ideal for survival.
- **Preventing CO2 Buildup:** The system prevents dangerous levels of carbon dioxide, protecting the health of occupants.

3.2 ENERGY EFFICIENCY

- **Low Consumption:** Designed to operate efficiently, which is crucial in situations where power supply may be limited.

3.3 EASY MAINTENANCE

- **Easy Access to Filters:** Filters can be easily replaced, reducing maintenance time and cost.
- **Proactive Alerts:** Maintenance and filter change notifications to ensure optimal performance.

4. APPLICATIONS

- **Bunkers and Shelters:** Provides a safe environment during prolonged emergencies.
- **Military Installations:** Ensures habitability in critical environments.
- **Laboratories and Research Centers:** Ideal for areas where thorough air quality control is required.

5. WARRANTY AND SUPPORT

- **Warranty:** 2-year full warranty.
- **Technical Support:** Technical assistance available 24/7.
- **Training:** Initial training for personnel in charge of operating the system.

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1. PRODUCT DESCRIPTION

The Oxygen Renewal and CO2 Removal System is an advanced solution designed to ensure a safe and healthy environment in bunkers, shelters and other critical facilities. This system maintains optimal oxygen levels and removes carbon dioxide, ensuring the well-being of occupants for extended periods of time.

2. TECHNICAL CHARACTERISTICS

2.1 TECHNICAL SPECIFICATIONS

- **Model:** O2-CO2 Renew Pro 3000
- **Oxygen Renewal Capacity:** Up to 300 m^3/h
- **CO2 Removal:** 99.9% removal efficiency
- **Power Consumption:** 150 W
- **Dimensions:** 60 cm x 40 cm x 30 cm
- **Weight:** 25 kg
- **Noise:** 40 dB (low noise level)

2.2 KEY COMPONENTS

- **Activated Carbon Filters:** Capture volatile organic compounds and improve air quality.
- **Ventilation Systems:** Integration of high efficiency fans that allow controlled airflow.
- **CO2 and O2 Sensors:** Monitor real-time gas levels and automatically adjust system operation.
- **Digital Control:** LCD display shows system status, oxygen and CO2 levels, and maintenance alerts.

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