

SAROS 4000™ Portable Oxygen Concentrator

Battlefield Oxygen for
Combat Casualty Care



Technical Specifications

Portable

SAROS 4000 solves the problem of conventional oxygen systems on or around battlefields: running out of oxygen, air/ground transportation, logistical supply and resupply, bottle exchange and endangering personnel.

- Produces 3,000 mL/min of oxygen
- Replaces traditional oxygen cylinders
- Operates at altitudes as high as 3,962 meters (13,000 ft)
- Over 1 hour of battery operation
- Only 1 bar (15 psi) system pressure

SAROS 4000 is equipped with autoSAT®.

- Pulse Dose Mode with autoSAT Technology
- Adjustable sensitivity triggering
- Maintains consistent FiO₂

Specialized

SAROS 4000 features a unique Tactical Mode operation.

- Enable or disable the audible alarms and LED indicators during use
- User-adjustable on and off buttons
- Tactical Mode indicated by a "T" on the LCD

Universal

SAROS 4000 is CE certified and compliant to the IEC 60601-1-12 standard. The SAROS 4000 meets or exceeds all requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment. This allows the SAROS 4000 to move with the patient, even in harsh environments.

- No more storing and filling tanks
- Not considered hazardous cargo
- Operates on AC, DC, and rechargeable battery power
- Conveniently fits into existing cylinder holders

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Product Features

- Tactical Mode
- SAROS 4000 is CE/MDD certified
- Compliant with IEC 60601-1-12 Standard
- Emergency and disaster preparedness
- Tactical combat casualty care
- En route care
- Reduces the burden of scheduling and transporting oxygen to patients
- Can be carried and used by soldiers and medics anytime, anywhere
- Eliminates the risk of carrying high-pressure O₂ cylinders

SAROS™ 4000 Portable Oxygen Concentrator Specifications

General

Dimensions: 68.1 cm long x 11.1 cm diameter with battery; 59.1 cm long x 11.1 cm diameter without battery

Weight: 5.56 kg with battery; 4.54 kg without battery

Clinical Specifications

Continuous Flow: 1, 2, 3 LPM

Pulse Flow: 16, 32, 48, 64, 80, 96 ml bolus

Oxygen Concentration: 93% +/- 3% for all flow settings

Sound Level: <59 dB(A) at 3 LPM

autoSAT Technology: Servo-control to maintain consistent SpO₂ (oxygen saturation)

Pulse Trigger Sensitivity Adjustment: Adjustable settings (1-most sensitive to 3-least sensitive)

Trigger Sensitivity: 0.15–0.45 cm H₂O

autoDOSE: Switches to Continuous Mode with an audible alarm if no inspiration has been detected for 60 seconds

Environmental

Operating Voltages:

AC Power Supply

Input Voltage: 100–240 VAC, 50–60 Hz, 115V at 400Hz

Input Current: 2.5–1.3A

Output Voltage: 24 VDC

Output Power: 200 W

24 VDC Cable

Input Voltage: 20–28 VDC; 24 VDC (Nominal)

Input Current: 10 A

Battery Life:

45 minutes at 2 LPM Continuous Flow, 1.1 hours at 32 ML Pulse Flow

Operating Environment:

Temperature: 32°F to 104°F (0° to 40°C)

Humidity: 10% to 90%, Non-condensing, 82.4°F (28°C) Maximum Dew point

Storage Environment:

Temperature: -4°F to 140°F (-20° to 60°C)

Humidity: Up to 90% Non-condensing

Transient Environmental Operating Conditions:

Temperature: 32°F to 104°F (0° to 40°C)

Humidity: Up to 90% Non-condensing

Altitude: 0–13,000 feet (0–3,962 meters)

Tactical Mode: Enable and disable audible alarms and LED indicators during use

Safety Specifications

Maximum System Pressure: 15 psig (103.4 kPa)

Oxygen Output Pressure: 4.0 psig (27.5 kPa) nominal

Ambient Pressure Range: (620 hPa to 1060 hPa) or (-1253 ft [-381m] to 12971 ft [3953m])



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