

EMV+ | SAROS™ 4000

Revolutionising Battlefield Oxygenation and Ventilation Therapy



Medical oxygen is essential for oxygenation and ventilation therapy, but its availability is limited, especially in remote combat areas.

Together with the ZOLL EMV+ portable ventilator, the CAIRE SAROS 4000 portable oxygen concentrator supports the clinical treatment of deployed military forces and helps to improve operational efficiency.^{1,2}

The unique combination of these two field-proven devices can also help to solve related problems commonly found in combat environments:

- Depleting oxygen supplies during therapy
- Size and weight challenges of traditional oxygen tanks
- Logistical supply and resupply complications
- Bottle exchange and potential personal endangerment

In a comparative test with other leading portable ventilators, the combination of the EMV+ and the SAROS oxygen concentrator achieved the highest FiO_2 concentration among all tested devices.³

ZOLL®

EMV+ Portable Ventilator

Designed to meet military and civilian transport standards, the versatile EMV+® portable ventilator is ideal for air medical and ambulance transport of adults, paediatric patients, and infants (≥ 5 kg). The EMV+ is lightweight (4.4 kg) yet rugged and features an energy-efficient integrated, high-flow compressor and oxygen system.

- Unprecedented 10-hour battery run-time
- Silent and Dark Mode prevents it from interfering with advanced infrared night-vision equipment
- Airworthiness Release certified; Automatic Altitude Compensation
- Meets an industry-leading set of military standards



SAROS 4000 Portable Oxygen Concentrator

The SAROS 4000 oxygen concentrator replaces the oxygen cylinders and large oxygen generation equipment often used in field hospitals, casualty evacuation, en route care, and on the battlefield.

- Produces 3,000 mL/min. of oxygen
- Operates on AC, DC, and rechargeable battery power
- Operates at altitudes up to 5,490 m
- Easy to carry – weighs only 5.5 kg



For more information, visit [zoll.com/military](https://www.zoll.com/military)

¹Arnold, Mark, "U.S. Army Oxygen Generation System Development." NATO, April 2010. RTO-MP-HFM-182

²Wilson, JE Jr, Barras WP. Advances in Anesthesia Delivery in the Deployed Setting. AMEDD Journal. 2016 April-September: 62-65

³Chris Blakeman, Dario Rodriguez, Jr., Richard Branson, "Bench Evaluation of Oxygen Delivery Using Portable Ventilators Paired With Portable Oxygen Concentrators." *Respiratory Care*. Oct 2019, 64 (Suppl 10) 323943