

EMV+[®] 731 SERIES

ZOLL[®]



*Specifically Designed
for the Military*

Unprecedented Battery Run-Time

The ZOLL EMV+ has the longest run-time—10 hours minimum—on a single charge, eliminating the need for “hot swappable” batteries. With a recharge time of approximately 2 hours, the EMV+ is mission-ready in half the time of other ventilators. It also runs and charges from any 11 to 33 volt DC power source and the SAFT 5790 radio battery.

Supportability and Maintainability

ZOLL's Remote Calibration System (RCS) was developed to support the maintenance and calibration needs of deployed EMV+ ventilators worldwide. When repairs are needed, RCS provides context-sensitive electronic repair procedures that guide BMETs to quickly repair the device and return it to service. RCS provides unprecedented device tracking and management with its integrated database that offers device history and performance tracing throughout its operational life.

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Specifically Designed for the Military

The 731 Series EMV+, unlike other military transport ventilators that are really only modified commercial devices, is uniquely designed to meet the needs of military users in the U.S. and around the world. The ZOLL EMV+ builds upon Impact Instrumentation's legacy Uni-Vent 754 design. And with over 20 years of superior ventilator performance, the EMV+ continues in that tradition. Designed with input from all branches of the U.S. military, as well as militaries worldwide, the EMV+ meets the today's enroute care mission.

Designed to Meet Military Standards

Military transport ventilators must meet the stringent requirements of the Joint Enroute Care Equipment Test Standard (JECETS). The ZOLL EMV+, unlike other military transport ventilators, is the ONLY device cleared for use in military vehicles (air, land or sea) without ANY waivers. Automatic altitude compensation and proper tidal volume delivery from -2000 to 25,000 feet makes the EMV+ the benchmark in transport ventilation. The EMV+ can be removed from extreme storage temperatures and immediately placed into operation with full functionality. Other ventilators may take 30 to 60 minutes to warm up and operate effectively.¹

Ease of Use

A transport ventilator must be easy to operate in the most challenging environments. The ZOLL EMV+ is designed to support the operator, no matter his or her background, during all phases of enroute care. Smart Help™, a patient-focused real-time guide for alarm management, prioritizes alarms and helps the provider maintain safe and effective ventilation. With Silent/Dark Mode, the device produces no audible alarms or visible light. Users are alerted to alarms using an infrared light emitter in the Alarm LED array.

Versatility with Standard Military Equipment

The ZOLL EMV+ incorporates a specially developed radial compressor that offers significant advantages over commercial turbine-based systems. ZOLL's efficient EMV+ compressor reduces battery consumption and conserves oxygen. Oxygen, from both high- and low-pressure sources, is delivered to the patient; no oxygen is wasted as it is with ventilators that use bias flow.



¹Blakeman TC, Rodriguez D, Britton TJ, Johannigman JA, Petro MC, Branson, RD. May 2016. Performance of Portable Ventilators Following Storage at Temperature Extremes. Military Medicine – International Journal of AMSUS. 181(5 Suppl) : 156 – 159.