

EMV+® 731 SERIES

ZOLL®



**MILITARY TOUGH
CLINICALLY PROVEN**

Portable Ventilator

Full Patient Range

For patients from infant (≥ 5 kg) through adult

Smart Help™ Display

Guides operator through on-screen commands when responding to alarms

Versatility with Standard Military Equipment

Functions with deployed oxygen concentrator systems used by the military

Unprecedented Battery Run-Time

No additional battery back-up needed thanks to 10-hour battery run-time. Battery recharges to 90% in 2 hours.

AWR Certified

Airworthiness Release certified. Approved for use during all phases of flight aboard both fixed-wing and rotary-wing U.S. Air Force and Army aircraft.

Silent and Dark Mode

Can be switched to a silent and dark mode, preventing it from interfering with advanced infrared night-vision equipment

Rugged, All-Weather Device

Designed for the unique needs of the military to handle austere environments. Meets an unprecedented set of military standards.

EMV+® 731 Series Specifications

(Software version 5.22)

Clinical Specifications

Operating Modes: AC, SIMV, CPAP, BL

Breath Target: Volume and pressure

Special Functions: Plateau Pressure, Manual Breath, Apnea Backup, Oxygen in Use, Inverse Ratio

Flow Rate: 0 to 100 LPM @ 40 cm H₂O

Breath Rate: 1 to 80 BPM

Tidal Volume: 50 to 2000 ml ATPD $\pm$ 10% of setting

Inspiratory Time: 0.3 to 5.0 seconds

I:E Ratio: 1:99 to 4.0:1.0

FiO₂: 21 to 100% $\pm$ 3% of full scale $\pm$ 10% of setting

PEEP: 0 to 30 cm H₂O

Pressure Support: 0 to 60 cm H₂O

Peak Inspiratory Pressure (PIP): 10 to 80 cm H₂O

Trigger Sensitivity: -0.5 to -6.0 cm H₂O

Oxygen Input Pressure: 55 psig (-25%; +20%) (380 kPa)

Safety Specifications

Airway Pressure High Limit:

20 to 100 cm H₂O values

Airway Pressure Low Limit: Off, 3 to 35 cm H₂O

BPM High Alarm Limit: Off, 2 to 99

BPM Low Alarm Limit: 2 to 40

LED Status/Alarm Indicator:

Red, yellow, and green LCD/LED adjustable

Environmental

Operating Voltages: 100 to 240 VAC (50/60 Hz) or 12.5 to 28.0 VDC

Operating Time: Internal battery 10 hours

Temperature Ranges:

Operating: -25° to 49°C (-13° to 120°F) with battery charging, battery discharge and AC power operation

Battery Charging: 0° to 45°C (32° to 113°F)

Long-Term Storage: -15° to 21°C (5° to 71°F) Optimal storage conditions

Altitude Compensation: Automatic -2,000 to 25,000 ft. (-601 to 7,620 meters)

AWR Certified: Approved for most U.S. Military aircraft

Temperature and Humidity

Testing: MIL STD 810F

Ingress Testing: MIL STD 810 F

Shock and Vibration Testing: MIL STD 810F

Altitude Testing: MIL STD 810F

EMC Testing: MIL STD 461F

Military Vehicle Power: MIL STD 1275 F

General

Size: 8.0" wide x 12.5" high x 4.5" deep (20.3 cm wide x 31.8 cm high x 11.4 cm deep)

Weight: 9.7 lbs (4.4 kg)



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