

EMV+® 731 SERIES

ZOLL®



*Ventilation
Made Easy*

Portable Critical Care 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 a 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 rotor, 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.

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EMV+® 731 Series Specifications

Clinical Specifications

Operating Modes: AC, SIMV with or without pressure support, and CPAP (NPPV/PPV) with or without pressure support

Breath Target: Volume and pressure

Flow Rate: 0 to 100 LPM @ 40 cm H₂O (3922 Pa)

Breath Rate: 1 to 60 BPM

Tidal Volume: 50 to 1500 ml

ATPD +/- 10% of setting

Inspiratory Time: 0.3 to 3.0 seconds

I:E Ratio: 1:1 to 1:99.9

FiO₂: 21 to 100% +/- 3% of full scale +/- 10% of setting

PEEP: 0 to 25 cm H₂O (0 to 2451 Pa)

Peak Inspiratory Pressure (PIP): 10 to 80 cm H₂O (980 to 7845 Pa)

Trigger Sensitivity: -0.5 to -6.0 cm H₂O (-49 to -588 Pa)

Oxygen Input Pressure: 55 psig (-25%; +20%) (379170 Pa)

Safety Specifications

Airway Pressure High Limit:

20 to 100 cm H₂O values (1961 to 9806 Pa)

Airway Pressure Low Limit:

Off, 3 to 35 cm H₂O (294 to 3432 Pa)

BPM High Alarm Limit: Off, 2 to 60

BPM Low Alarm Limit: 2 to 40

LED Status/Alarm Indicator:

Red, yellow, and green

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:

-2,000 to 25,000 ft. (609.6 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 810F

Military Vehicle Power: MIL STD 810 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)

