

EMV+® 731 SERIES

ZOLL®



Ventilation  
**Made Easy**

## Portable Critical Care Ventilator

### Full Patient Range

For patients from infant ( $\geq 5$  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.

### ZOLL Medical Corporation Worldwide Headquarters

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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 H<sub>2</sub>O (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

**FiO<sub>2</sub>:** 21 to 100% +/- 3% of full scale +/- 10% of setting

**PEEP:** 0 to 25 cm H<sub>2</sub>O (0 to 2451 Pa)

**Peak Inspiratory Pressure (PIP):** 10 to 80 cm H<sub>2</sub>O (980 to 7845 Pa)

**Trigger Sensitivity:** -0.5 to -6.0 cm H<sub>2</sub>O (-49 to -588 Pa)

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

### Safety Specifications

**Airway Pressure High Limit:** 20 to 100 cm H<sub>2</sub>O values (1961 to 9806 Pa)

**Airway Pressure Low Limit:** Off, 3 to 35 cm H<sub>2</sub>O (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)

