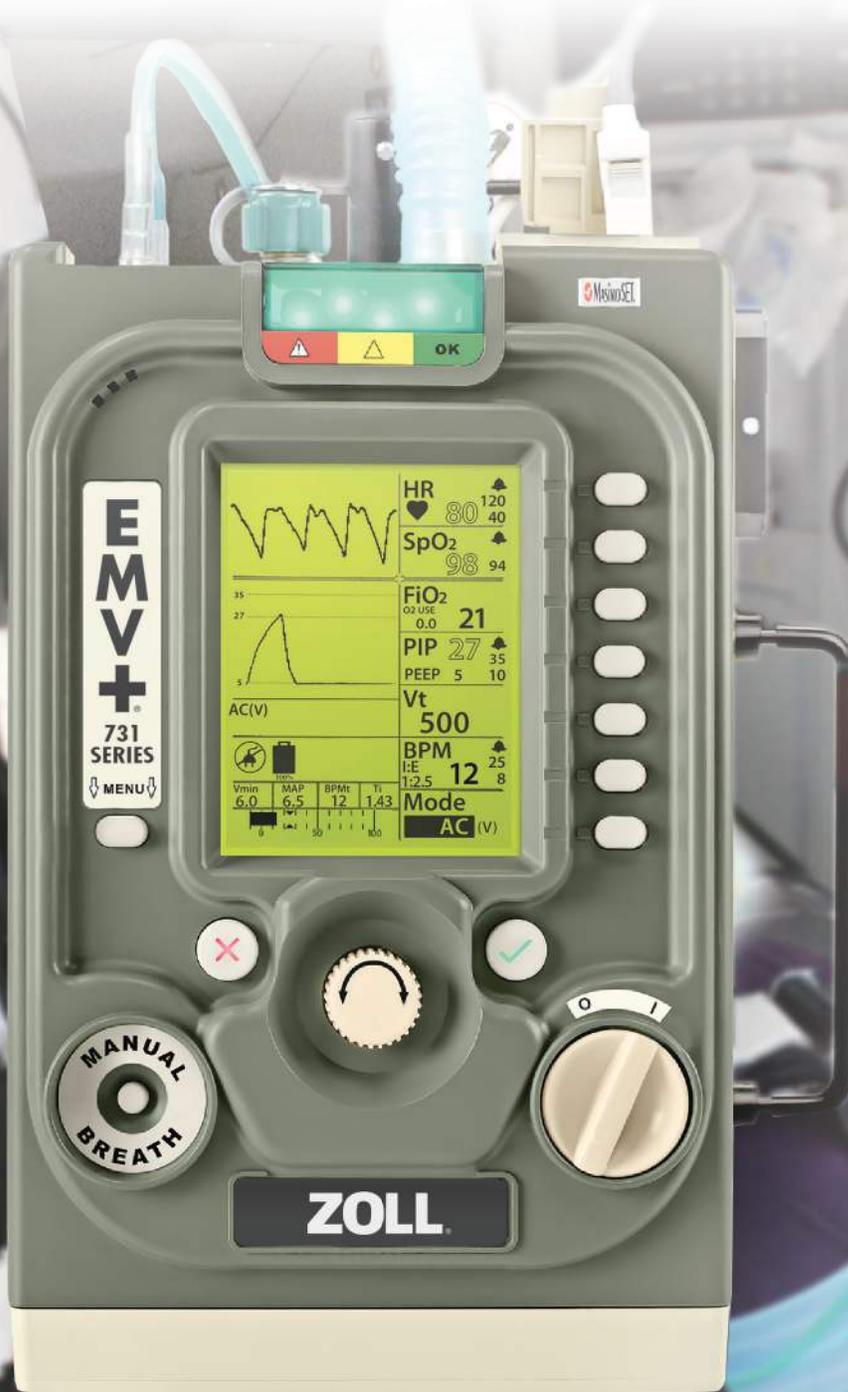


**EMV+<sup>®</sup>** 731 SERIES

**ZOLL<sup>®</sup>**



*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

### Intuitive Design

User-friendly, straight-forward interface

### 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 for use aboard U.S. Air Force and U.S. Army aircraft, both fixed-wing and rotor, during all phases of flight.

### Rugged, All-Weather Device

Under 10 lbs (4.5 kg) yet rugged. Designed for the unique needs of air medical patient transport.

**ZOLL Medical Corporation  
Worldwide Headquarters**  
269 Mill Road  
Chelmsford, MA 01824  
978-421-9655  
800-804-4356

For subsidiary addresses and fax numbers, as well as other global locations, please go to [www.zoll.com/contacts](http://www.zoll.com/contacts).

## 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)

