# EMV+® 731 Series 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
- 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)

## Safe 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: 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.

## 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)