

# The EPV200 Portable Ventilator With Assist Control

- Assist-Control operation accommodates conscious or semi-conscious patients via invasive or non-invasive ventilation.
- Simple control interface enables treatment by a broad range of caregivers during medical surge or routine transport.
- Lightweight durable construction is ideal for use in transport ventilation or stockpiling.
- Low maintenance and accessory costs ensure a low cost of ownership.

Simple, lightweight, robust and affordable, the EPV200 with Assist-Control is a portable mechanical ventilator designed to provide effective ventilation for intubated or non-intubated patients, maximizing medical surge response during the initial stages of a mass casualty event.

This gas-powered electronically-controlled vent is extremely easy to use, and is equipped with independent inspiratory time, tidal volume and BPM controls. It also features a built-in digital manometer and a full array of pre-set visual and audible safety alarms. The Assist-Control function triggers at less than -2 cm H<sub>2</sub>O to accommodate spontaneous breathing.

The weather-resistant EPV200 will run for up to 48 hours on two D cell batteries, and is ideal for stockpiling or everyday use.



## Specifications - EPV200

### Setting Parameters

**Ventilation Mode:** Assist-Control  
**Assist-Control:** Triggers at less than -2 cm H<sub>2</sub>O  
**Flow Rate:** 12-36 LPM  
**Breathing Rate:** Adjustable. 0, 5-30 breaths per minute  
**Tidal Volume:** Adjustable. 200-1200 ml  
**Inspiratory Time:** Selectable. 1 or 2 seconds  
**PEEP:** External. 0-20 cm H<sub>2</sub>O (with PEEP adapter)  
**FiO<sub>2</sub>:** 100%  
**Manometer Readout:** Digital. 0-99 cm H<sub>2</sub>O  
**Airway Pressure Limit:** Fixed. 60 cm H<sub>2</sub>O

### Alarms

**High Airway Pressure:** Fixed. 45 cm H<sub>2</sub>O  
**Low Airway Pressure/Circuit Disconnect:** Fixed. 9 cm H<sub>2</sub>O  
**Low Source Gas:** Fixed. Activates at approx. 40 psi (275 kPa)  
**Low Battery:** Activates when approx. 2 hours run time remain  
**Alarm Volume:** Approx. 60 dB at 1 meter  
**Alarm Silence:** Yes. 110 Seconds

### Power Characteristics

**Power Source:** Pneumatic with electronic controls and alarms  
**Power Input:** Pneumatic. 40-87 psi O<sub>2</sub> and 2 D cell batteries  
**Internal Battery Type:** D cell batteries  
**Operating Time:**  
Based on average adult settings of 10 BPM, 640 ml tidal volume, 2 second inspiratory time  
**Oxygen:** Dependent on source capacity. Approx. 65 minutes on D cylinder  
**Battery Life:** 48 hours of continuous use

### Physical Characteristics

**Dimensions:** 3.5" x 7.0" x 9.3" (88.9 mm x 177.8 mm x 236.2 mm)  
**Weight:** 3.1 lbs. (1.4 kg) with batteries  
**Temperature Ranges:**  
**Operating:** -15 to 122°F (-9 to 50°C)  
**Storage:** -40 to 140°F (-40 to 60°C)  
**Enclosure:** ABS plastic with seals to prevent water ingress  
**Shock Resistance:** 30" drop  
**Vibration Resistance:** 100 G  
**Water Resistance:** Spill and rain resistant