

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 H₂O 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 H₂O
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 H₂O (with PEEP adapter)
FiO₂: 100%
Manometer Readout: Digital. 0-99 cm H₂O
Airway Pressure Limit: Fixed. 60 cm H₂O

Alarms

High Airway Pressure: Fixed. 45 cm H₂O
Low Airway Pressure/Circuit Disconnect: Fixed. 9 cm H₂O
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 O₂ 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

