

# AV-S200

## Portable Ventilator with Assist Control

- The Assist-Control feature, which provides both invasive and non-invasive ventilation choices, is made to support patients who are awake or only partially cognizant.
- Intuitive control panel allows a diverse group of medical providers to administer treatment during periods of increased demand or regular patient transfer.
- The sturdy yet lightweight design is perfect for transport ventilation or storage.
- Minimal upkeep and affordable accessories contribute to a cost-effective ownership experience.

Designed to endure various conditions, the weather opposed AV-S200 can operate for up to 48 hours using just two D cell batteries.

Its versatility makes it suitable for stockpiling or regular usage alike.

Effortlessly combining simplicity, portability, durability, and affordability, the AV-S200 with Assist-Control stands as a versatile portable technical ventilator. Its purpose is to deliver effective ventilation for both cannulated and non-cannulated patients, ensuring a robust medical response during the preliminary phases of a majority casualty scenario.

Operated by gas power and electronic controls, this ventilator boasts user-friendly functionality. It grants independent control over inspiratory time, tidal volume, and breaths per minute (BPM). Moreover, it features a digital manometer, which is built-in, and an general set of pre-organized visible and distinct safety alerts. The Assist-Control process activates at pressures as low as -2 cm H<sub>2</sub>O, catering to impulsive breathing.



# SPECIFICATIONS

## Configuring Parameters

- **Ventilation Mode:** Assist-Control
- **Assist-Control Activation:** Initiates at pressures below -2 cm H2O
- **Flow Rate:** Ranges from 12 to 36 LPM
- **Breathing Rate:** Customizable, offering options of 0 and a range from 5 to 30 breaths per minute.
- **Tidal Volume:** Adjustable, spanning from 200 to 1200 ml.
- **Inspiratory Time:** Choice of 1 or 2 seconds
- **PEEP (Positive End-Expiratory Pressure):** External adjustment available, covering a span of 0 to 20 cm H2O (requires PEEP adapter)
- **FiO2:** Set at 100%
- **Manometer Display:** Digital representation from 0 to 99 cm H2O
- **Airway Pressure Limit:** Fixed at 60 cm H2O.

These settings empower precise customization to meet individual patient needs.

## Energizing Attributes

- **Power Supply:** Blend of pneumatic mechanisms with electronic controls and alert systems
- **Power Input:** Pneumatic source requiring 40-87 psi O2, complemented by 2 D cell batteries.
- **Internal Battery Support:** D cell batteries, ensuring operational consistency.
- **Runtime Performance:**
- **Reflecting average adult configurations:** 10 BPM breathing rate, 640 ml tidal volume, and 2-second inspiratory interval
- **Oxygen Dependency:** Linked to source capacity, delivering approximately 65 minutes from a D cylinder.
- **Battery Longevity:** 48 hours of uninterrupted usage, underscoring enduring reliability.

These power features deliver a seamless & dependable operational experience.

## Alert System

- **Elevated Airway Pressure Warning:** Set at 45 cm H2O. Reduced Airway Pressure/Circuit Disconnection
- **Alert:** Fixed at 9 cm H2O.
- **Depleted Source Gas Notification:** Activates around 40 psi (275 kPa)
- **Battery Depletion Alarm:** Signals when approximately 2 hours of operation remain.
- **Alarm Sound Intensity:** Approximately 60 dB at a distance of 1 meter
- **Alarm Muting Capability:** Yes, with a duration of 110 seconds

This comprehensive alarm system ensures continuous awareness & initiative-taking response.

## Physical Attributes

- **Size:** Compact dimensions of 3.5" x 7.0" x 9.3" (88.9 mm x 177.8 mm x 236.2 mm)
- **Weight:** Lightweight at 3.1 lbs. (1.4 kg), including batteries
- **Temperature Performance:**
- **Operational Range:** From -15 to 122°F (-9 to 50°C)
- **Storage Range:** From -40 to 140°F (-40 to 60°C)
- **Construction:** Crafted from sturdy ABS plastic with specialized seals to safeguard against water infiltration
- **Durability:** Withstands a 30" drop and resists vibrations of up to 100 G
- **Resilience to Moisture:** Demonstrates resistance against spills and rain.

These physical attributes ensure the device's reliability and adaptability in various environments.

