



The **Puritan Bennett Achieva PSO₂** ventilator provides continuous respiratory support for pediatric to adult patients with respiratory insufficiencies or failures, in a home, institution, or portable settings. The Puritan Bennett Achieva ventilators have a compact design, are lightweight, and use portable oxygen and power sources, which make these ventilators highly portable.

Features

- Wide range of delivery volumes, inspiratory times, and breath rates.
- Magnetic latched door panel to prevent tampering and accidental resetting.
- Support for pediatric and adult patients.
- Use in home, institutional, and portable settings.



Specifications

Dimensions

Height: 10.75" (27.3 cm)
Width: 13.3" (33.8 cm)
Depth: 15.6" (39.6 cm)
Weight: ~32 lbs (~14.5 kg)

Type of Ventilator

Type: Positive Pressure Volume Ventilator
Motor: 3-phase brushless motor
Pump: Piston, 50ml to 2200ml tidal volume capacity
Protection Against Electrical Shock: Class 1

Power

Power Line: 100 to 240 VAC, 50 to 60 Hz, 2 Amps
External DC Power
11.6 to 32.0 VDC (24 VDC optimal)
Operating Time: At least 19 hours under normal load, and 5 hours and 30 minutes under heavy load 24 VDC or 12 VDC, 32 Ah (Amp-hour)
Internal Battery
24 VDC (nominal)
Operating Time: At least 4 hours under normal load, and 1 hour under heavy load
Gel cell, sealed Lead Acid
Lithium Battery

Settings

Volume (Vt): For assist/control 50ml to 2200ml in 10 ml steps. for SIMV 50ml to 1750ml in 10 ml steps accurate to ± 10 ml for 50-100 ml and $\pm 10\%$ (max 75 ml) for 100-2200 ml of the setting to a maximum delivered volume error of 75 ml.
Inspiratory Time (Ti): 0.2 to 5.0 seconds in increments of 0.1 seconds. Accurate to $\pm 10\%$
Sensitivity (Sens.) Flow: 3 to 25 LPM in 1 LPM increments. Accurate to ± 2.0 LPM. Off or 1 to 15 hPa in 1 hPa increments. Accurate to ± 2.5 hPa.
Breath Rate (f): 1 BPM to 80 BPM in steps of 1 BPM. Accurate to $\pm 10\%$ of 1 BPM which ever is greater.
Pressure (P): 0 to 50 hPa in 1 hPa increments. Accurate to ± 2.5 hPa of the setting once the pressure reaches the setting.
PEEP: 0 and 3 to 20 hPa in 1 hPa in 1 hPa increments. Accurate to ± 2.5 hPa
Low Pressure: 1 to 59 hPa in increments of 1 hPa. Activates within ± 2.5 hPa
High Pressure: 2 to 80 hPa in increments of 1 hPa. Activates within ± 2.5 hPa
Flow Acceleration: OFF or ON (Inspiratory Flow ≤ 180 lpm)
Expiratory Trigger: 15% to 55% in increments of 10%. Accurate to $\pm 15\%$ at 15%, to $\pm 5\%$ at 25%-55%
O2 Level (O2%): 21% to 100% for tidal volumes greater than equal to 100 ml, 21% to 70% for tidal volumes less than 100 ml in 2% increments.

