pNeuton® Model A-E Ventilator Specifications

Modes of Operation
- CMV (Continuous Mandatory Ventilation)
- IMV (Intermittent Mandatory Ventilation)
- CPAP (Continuous Positive Airway Pressure)

Control and Ranges

Controls
- Mandatory Breaths On or Off
- Respiratory Rate from 3 to >28 bpm
- Tidal Volume from 360 to 1,500 ml
- Peak Pressure from 15 to 75 cm H\textsubscript{2}O
- PEEP/CPAP from 0 to 20 cm H\textsubscript{2}O
- % Oxygen 100% or 65%

Operating Ranges
- Inspiratory Time 0.6 to 2.5 seconds (±20%)
- Expiratory Time 0.6 to 20.0 seconds (±20%)
- Minute Volume 0.2 to 30 L/min (±20%)
- Flow Pattern Square 36 L/min (±20%)
- Internal P Limit 70 to 84 cm H\textsubscript{2}O
- Patient weight > 50.7 pounds (23 kg) pediatric and adult

Power Sources

Driving gas requirement
- 55 psi ± 15 psi (380 kPa ± 100 kPa)
- 100% oxygen. Do not use the ventilator with other types of gases
- The gas supply must be capable of delivering at least 40 liters per minute at 55 psi. If input pressure drops less than 30 psi due to insufficient gas flow, the ventilator will alarm and begin to malfunction

Alarm System

Patient Disconnect
- Pressure
  - Mandatory Breath OFF, less than 5 cm H\textsubscript{2}O
  - Mandatory Breath ON, less than 5 cm H\textsubscript{2}O
- Alarm delay: Less than 22 ± 3 seconds
- Alarm silence: Less than 60 ± 6 seconds

Low Gas Supply
- Input supply pressure: Less than 30 ± 2 psi (~2.1 bar)
- Cannot be silenced

Ventilator System Performance

Internal Compliance:  0.1 ml/cm H\textsubscript{2}O

Ventilator Resistance to Flow
- Inspiratory, 60 L/min: Less than 2 cm H\textsubscript{2}O/L/sec
- Expiratory, 50 L/min: Less than 6 cm H\textsubscript{2}O/L/sec

Physical and Environmental Characteristics

Weight: ~9.0 pounds (4.1 kg)
Dimensions: 5.1” H x 10.5” W x 7.3” D
(13.0 cm x 26.7 cm x 18.5 cm)

Storage Temperature Range: -20 to 60 °C (-4 to 140 °F), 15 to 95 percent humidity, non-condensing

Operating Temperature Range: -5 to 40 °C (23 to 104 °F), 15 to 95 percent humidity, non-condensing

Hypobaric (high altitude) compatible up to 15,000 feet (4,600 meters)

WARNING
Not for use in MR environment
The ventilator has not been cleared or approved by the FDA.
The ventilator has been authorized by FDA under an Emergency Use Authorization (EUA).
The ventilator is authorized only for the duration of the U.S. declared health emergency.