

WaltersMedical

Specialist Critical Care



NEO-I Infant T-Piece Resuscitator



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NEO-I INFANT T-PIECE RESUSCITATOR

The NEO-I is an infant T-piece resuscitator offering a precise and controllable Peak Inspiratory Pressure (PIP) and Positive End Expiratory Pressure (PEEP).

The Resuscitation Council UK¹ recommend the use of a T-piece resuscitator where possible during newborn life support.

This manually operated, pneumatically driven resuscitator safely improves lung volume and helps establish Functional Residual Capacity (FRC) in infants weighing up to 10kg.

Suitable for use in Neonatal Units, Delivery Suite, during transportation, and across other clinical settings



The NEO-I can be freestanding on a shelf, mounted to an IV pole, or mounted on a medical rail.

¹ Fawke, J. et al. (2025). *Newborn resuscitation and support of transition of infants at birth guidelines*. Resuscitation Council UK. Published 27 October 25.

Specification

Oxygen concentration level	21%–100% (according to the oxygen concentration of gas supply)
Manometer range	10–80cmH ₂ O (mbar)
Accuracy	±2% full scale
Input gas flow range	5–15L/min
Maximum pressure (Pmax) setting range	gas flow is 8L/min, 1–60cmH ₂ O(mbar) (factory default is 40cmH ₂ O(mbar))
Peak Inspiratory Pressure (PIP) setting range	5L/min: 1–57cmH ₂ O(mbar) 8L/min: 2–58cmH ₂ O(mbar) 10L/min: 3–59cmH ₂ O(mbar) 15L/min: 5–60cmH ₂ O(mbar)
Positive End Expiratory Pressure (PEEP) setting range	5L/min: 0–8cmH ₂ O(mbar) 8L/min: 0.2–17cmH ₂ O(mbar) 10L/min: 0.5–23cmH ₂ O(mbar) 15L/min: 1–28cmH ₂ O(mbar)
Applicable time (400L, 50% air/oxygen mixture compressed gas)	5L/min: 75min 10L/min: 38min 15L/min: 26min
Total mass (including accessories)	≤2kg

Standard Configuration

NEO-I including:

- Flow Meter Adaptor
- T-Piece Breathing Circuits
- Gas Supply Circuits
- Test Lung
- Silicone Masks

Environmental requirement

- Operating range: –18°C–50°C
- Relative humidity: ≤95%

Product packaging

- Size: 480mm x 360mm x 230mm
- Gross weight: 3kg



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