



The **Nellcor Puritan Bennett Infrasonics Infant Star 950** and 500 are time cycled, pressure limited, continuous flow ventilators, offering adjustable background flow in the CPAP and IMV modes. Operation in the CPAP and IMV modes is identical in the Infant Start 950 and the Infant Star 500. The Infrasonics Infant Star 950 / 500 are designed to provide continuous ventilatory support for neonatal and pediatric patients less than 40 lbs (18 kg), with an adjustable flow rate range from 4 to 40 liters per minute (LPM), and background flow range from 2 to 30 LPM.

## Features

- Neonatal and pediatric patients.
- Unique blender calibrated from 21 to 100% to help reduce gas waste.
- RS-232 computer interface or monitor connection to collect ventilator information.
- Dual microprocessors to control ventilator operation and display information.



## Specifications

### Dimensions

**Height:** 16.25" (41 cm)  
**Width:** 11.25" (29 cm)  
**Depth:** 19.25" (49 cm)  
**Weight:** 50 lbs (23 kg)

### Modes

**Pressure-Controlled Modes:** Assist/Control; SIMV; CPAP/BACKUP (these require Star Sync); IMV; CMV, CPAP  
**Flow-controlled modes:** CMV (optional); SIMV  
**Combined modes:** HFV, HFV + IMV

### Waveforms

**Pressure:** Rectangular  
**Flow:** Rectangular

### Operating Range of Controls

**Ventilator Rate:** 1 to 150 bpm  
**PIP (Peak Inspiratory Pressure):** 5 to 90 cmH2O  
**PEEP/CPAP:** 0 to 24 cmH2O  
**Inspiratory Time:** 0.1 to 3.0 seconds  
**Flow Rate (Mandatory Breath):** 4 to 40 Lpm  
**Background Flow:** 2 to 32 Lpm (demand system provides up to 40 Lpm total flow)  
**Proximal Airway Pressure:** -10 to 120 cmH2O  
**Mean Airway Pressure:** 0 to 99.9 cmH2O  
**I:E Ratio:** 1:0.1 to 1:99.9  
**Expiratory Time:** 0.2 to 59.9  
**Duration Positive Pressure:** Duration of positive pressure applied 1 cmH2O above baseline in seconds;  
**High Frequency Rate:** 2 to 22 Hz;  
**Amplitude:** Measured HFV pulse pressure 0 to 160 cmH2O

### Front Panel Controls

Ventilator Settings  
Ventilator Rate  
PIP (Peak Inspiratory Pressure)  
PEEP/CPAP  
Inspiratory Time  
Flow Rate (Mandatory Breath)  
Background Flow  
Manual Breath

