



The **Nellcor Puritan Bennett Infrasonics Infant Star 950 and 500** is a continuous flow, high frequency ventilator. The system also offers timed cycles and pressure limits. It offers ventilation modes including CPAP and IMV. The Infrasonics Infant Star 950 and 500 both run on the same identical operating system. The Infant Star was designed to support the ventilation of neonatal and pediatric patients that weigh less than 40 lbs (18kg). The Adjustable flow for the ventilator ranges from 4 to 40 Peters per minute with an additional background flow ranging from 2 to 30 liters per minute.

The System runs off a dual microprocessor, where one controls the ventilation functions and the other provides the display information. By having two microprocessors, the system can continuously check to detect malfunctions and still run if something is detected. The Infrasonics infant star ventilator offers comprehensive monitoring with a built-in alarm system to alert of ventilation changes in the patient.

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

