INFRASONICS INFANTSTAR 950 VENTILATOR

- High frequency vent with star cart. The 950 Ventilator is timed cycled, pressure limited, continuous flow ventilators, offering adjustable background flow in the CPAP and IMV modes. Operations in the CPAP and IMV modes are identical in the 500 and 950 Ventilators.

Specifications

Modes--Invasive:
- 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

Size:
- 16.25" (41cm) H x 11.25" (29cm) W x 19.25" (49cm) D

Weight:
- 50 lb (23 kg)

Front Panel Controls:
- Ventilator Settings;
- Ventilator Rate;
- PIP (Peak Inspiratory Pressure);
- PEEP/CPAP;
- Inspiratory Time;
- Flow Rate (Mandatory Breath);
- Background Flow;
- Manual Breath;
Proximal Airway Pressure;
Mean Airway Pressure;
I:E Ratio;
Expiratory Time;
Duration Positive Pressure;
High Frequency Rate: 2 to 22 Hz;
Amplitude

**Power Requirements:**

Pneumatic Power: Air and/or Oxygen; 45 to 90 psig (241 to 621 kPa);
Electrical Power: The Infant Star is continuously powered by a 12-volt battery maintained fully charged when attached to AC power. During loss of AC power, the ventilator will continue to run for a minimum of 30 minutes.
90 to 105 VAC, 50/60 Hz, 100 watts;
105 to 127 VAC, 50/60 Hz, 100 watts;
198 to 264 VAC, 50/60 Hz, 100 watts;
External 12 VDC Input;
11.8 V to 18 V @ 5 amps source;
Battery Recharge Time;
1 hour (ventilator not in use);
1.5 hours (ventilator in use)

**Alarms:**

General System Failure;
Additional General System Alarms;
High Peak Pressure;
Low Peak Pressure;
Low PEEP;
Apnea (optional)

**Alarm Controls:**

High Inspiratory Pressure: 5 to 105 cmH2O (maximum setting = PIP +15 cmH2O);
Low Inspiratory Pressure: 3 to 60 cmH2O

**Non-Adjustable Alarms:**

Low PEEP/CPAP: Detects drop in PEEP/CPAP > 2 cmH2O;
Airway Leak: Detects gross leaks in patient circuit;
Obstructed Tube Alarms:
AO1: HIP Alarm setting;
AO2: Obstructed expiratory limb;
5 cmH2O above HIP Alarm setting;
AO3: High expiratory resistance;
<50% drop from PIP to PEEP within minimum expiratory time;
AO4: High PEEP/CPAP;
PEEP/CPAP +6 cmH2O for 5 seconds;
AO5: Obstructed inspiratory limb or proximal line;
10 cmH2O about HIP Alarm setting;
Insufficient Expiratory Time: Preset at 0.2 seconds or 0.3 seconds (determined by rate);
Ventilator Inop + Error code: Malfunction detected by microprocessor diagnostics;
Low O2 Pressure: Less than 45 psig (310 kPa) O2 pressure;
Low Air Pressure: Less than 45 psig (310 kPa) air pressure;
Low Battery: Imminent loss of battery power (5 min);
External Power Loss: AC power loss - internal
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**Other Specifications:** 30 minutes battery duration. Alarms classified by urgency.

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