

# AIRBORNE

## NXTGEN

TRANSPORT INCUBATOR

### THE NEXT GENERATION OF NEONATAL TRANSPORT



AIR



GROUND

Easy clinical access to the patient  
Touch screen user interface  
Safe and secure air or ground transport  
Compact and customizable options

 International Biomedical®

## Standard Features:

### Infant Chamber

- Sizes: Extra Large (XL) or Low Profile (LP)
- Main Access Door: 21.6 x 57 cm
- 6 Hand Ports: 13.9 x 16.5 cm (Oval Shape)
- 8 Access Ports for IV/Respiratory Tubing

### Dynamic Patient Tray

- Mattress: 31.8 x 61.0 x 2.5 cm
- Maximum Patient Weight: 10 kg
- Mattress to Chamber Height: 24.1 cm (XL)
- Mattress to Chamber Height: 19.0 cm (LP)
- Quick Release with No Tools
- Vibration Isolation System

### Touch Screen User Interface

- Touch Screen: 17.8 cm (diagonal)
- 800 x 480 pixels
- Data Trending & Output
- Stop Watch
- Countdown Timer
- Screen Lock
- Screen Brightness Adjustment: 5 (20%)
- Event Log
- Languages: English, German, Spanish, French, Swedish, Italian, Portuguese, Finnish, Norwegian, Canadian French, Danish, Dutch, Czech, Croatian, Hungarian, Polish, Romanian
- Self-test function performed at power on & continuously during operation

### Thermal Performance

- Thermal Control Modes: Servo & Manual
- Air Temp Set Point Range: 17.0 – 38.9°C
- Servo Temp Set Point Range: 33.0 – 37.5°C
- Temperature Display Resolution: 0.1°C
- Temperature Accuracy:  $\pm 1.0^\circ\text{C}$
- Warm-up Time: 12 min (LP) & 16 min (XL)
- Airflow Filtration: < 5 microns
- Carbon Dioxide Concentration: < 0.5%
- Temperature Display Update Period: 1 sec
- Audible Noise Level: < 60 dBA
- Air Velocity Across the Mattress: < 0.35 m/s
- Temperature Probe Accuracy:  $\pm 1.0^\circ\text{C}$
- Microprocessor controlled system

### LED Observation Light

- Intensity: >500 Lux
- Intensity Increments: 5 (20%)
- Power: 10 watts

### Alarms & Indicators

- Adjustable Alarm Intensity: 65 dBA Max – 50 dBA Min (@3m)
- Color Coded Visual Alarms
- Alarm Messages Communicated in Plain Text
- Alarms: Chamber Temperature HI/LO (Manual Mode), Patient Temperature HI/LO (Servo Mode), Airflow Blocked, AC Disconnect, Power Fail, Airflow Fan Fail, Low Battery, System Fail, Air Temp Sensor, Speaker Fail

## Physical Specifications:

- Dimensions
  - Length: 76.2 cm
  - Width: 42.4 cm
  - Height (XL Chamber): 60.9 cm
  - Height (LP Chamber): 55.9 cm
- Weight: 38.0 kg without handles or accessories

## Electrical Specifications

- AC Power (Incubator): 100 – 240 VAC, 50/60 Hz, 3 A Max
- Total Power: 2,000 VA (Max)
- 8 AC Accessory Outlets: 7 A Max (Total) at input voltage
- External DC Power Input: 12 – 28 V, 15 A Max
- External DC Power Output: 3 A, at input voltage
- Battery Chemistry: Sealed Lead/Acid (SLA) or Lithium Iron Phosphate (LiFePO<sub>4</sub>) (Optional)
  - LiFePO<sub>4</sub> Battery Voltage: 12 V
  - LiFePO<sub>4</sub> Battery Capacity: 32 Ah
  - LiFePO<sub>4</sub> Battery Life: 1000 cycles
  - LiFePO<sub>4</sub> Battery Weight: 5 kg
  - SLA Battery Voltage: 12 V
  - SLA Battery Capacity: 26 Ah
  - SLA Battery Life: Approx. 200 cycles
  - SLA Battery Weight: 10 kg
  - Nominal Battery Operation Time
  - LiFePO<sub>4</sub> Battery: 5.0 hr. at 37°C
  - SLA Battery: 4.0 hr. at 37°C
  - Nominal Battery Recharge (90%) Time: 4.5 hr. on A/C Power, Unit Off

## Operational Specifications

- Temperature: 15 – 40°C
- Humidity: 5% – 95% non-condensing
- Pressure: 70 kPa – 110 kPa

## Storage Specifications

- Temperature: -25 – 60°C
- Humidity: 5% – 95% non-condensing
- Pressure: 50 kPa – 110 kPa

## Standards & Approvals

- 60601-1
- 60601-1-2
- 60601-1-6
- 60601-1-8
- 60601-1-12
- 60601-2-20
- 60601-2-35
- 60601-2-50
- 10079-1
- 80601-2-55
- 80601-2-61
- RTCA DO-160
- Class II / Internally Powered, according to the type of protection against electrical shock
- Incubator & its applied parts are Type BF Equipment
- IP 33

## Optional Features:

### Heated Mattress

- Heated Mattress Size: 31.8 x 61.0 x 2.5 cm
- Power: 22 watts Max, 40°C Max

### Phototherapy

- Light Spectrum Range: 450 – 465 nm
- Maximum Irradiance:
  - LP Chamber: 35  $\mu\text{W}/\text{cm}^2/\text{nm}$
  - XL Chamber: 22  $\mu\text{W}/\text{cm}^2/\text{nm}$
- Effective Irradiated Area:
  - LP Chamber: 31.2 x 23.4 cm ellipse
  - XL Chamber: 38.4 x 27.4 cm ellipse
- Power: 10 watts Max

### Pulse Oximetry

- Technology: Masimo SET or Nellcor Oximax
- Measurement Range:
  - SpO<sub>2</sub>: 1 – 100%
  - Pulse Rate: 25 – 239 bpm
- Resolution:
  - SpO<sub>2</sub>: 1%
  - Pulse Rate: 1 bpm
- Masimo SET Sensor Accuracy
  - SpO<sub>2</sub> 70 – 100%:  $\pm 3\%$
  - SpO<sub>2</sub> 0 – 69%: unspecified
  - Pulse Rate:  $\pm 3$  bpm (no motion),  $\pm 5$  bpm (motion)
- Nellcor Sensor Accuracy
  - SpO<sub>2</sub> 70 – 100%:  $\pm 2\%$
  - Pulse Rate:  $\pm 3$  bpm

### Ambient Oxygen Monitor

- Measurement Range: 10.0 – 100% O<sub>2</sub>
- Resolution: 0.1%
- Accuracy:  $\pm 4.0\%$
- Stability: < 2% drift over 8 hours
- Response Time: < 16 sec for 90% response

### Suction

- Vacuum Pressure Range: 10 – 150 mmHg
- Vacuum Max Pressure: 150 mmHg
- Flow rate at vacuum inlet: 10 LPM
- Vacuum Pressure Accuracy:  $\pm 5$  mmHg
- Audible Noise Level: < 60 dBA
- Power: 20 watts Max

### Airway Management

- Intelligent, Automatic Gas Switching Manifold
  - Air/Oxygen Inputs (External Gas)
  - Air/Oxygen Inputs (Cylinder Gas)
  - Options for DISS or NIST
- 1 or 2 sets of Air/Oxygen Outputs
- Air & Oxygen Blender: 21 – 100% FiO<sub>2</sub>
- Mixed Gas Flow Meter: 0 – 15 L/min



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