

# AIRBORNE

## NxtGEN

TRANSPORT INCUBATOR

### THE NEXT GENERATION OF NEONATAL TRANSPORT



AIR



GROUND

360° patient access

Patient servo temp control

Electronic heated mattress\*

Large touch screen

Front pull out patient tray

 internationalBIOMEDICAL®

## 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)
- 6 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



## Europe

International Biomedical AG  
Glücksbachstrasse 100, CH-3661 Uetendorf, Switzerland  
T. +41.33.345.66.00  
welcome@int-bio.ch

## Worldwide

International Biomedical  
8206 Cross Park Drive, Austin, Texas USA 78754  
T. 512.873.0033 F. 512.873.9090  
sales@int-bio.com

## int-bio.com

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