

Giraffe Incubator



Description and Application

The Giraffe® Incubator is an enclosed neonatal intensive care microenvironment developed through a philosophy of extensive user input to best define products that meet the needs of clinicians, patients and families. Several unique features provide a developmentally appropriate environment for the patient, while decreasing stress for family and simplifying procedures for the clinician. The design of the Giraffe Incubator is unlike any other incubator available.

Features and Benefits

Patient Accessibility

- Patented Baby Susan™ rotating mattress allows the caregiver to rotate the bed 360° for easy patient access.
- Dual Access doors and portholes – allow access even when the bed is tilted 12°
- Centralized display/control unit provides accessibility from either side of the bed plus excellent viewing of all equipment and patient parameters.

Bed

- Integrated X-ray cassette tray minimizes patient disturbance.
- Internally activated bed tilt is smooth and continuous through 0-12° in both Trendelenburg positions. Bed tilt can be activated internally with one hand, allowing the caregiver to comfort the infant while changing the bed position.

Additional Features

- Optional servo oxygen control system maintains an oxygen-enriched environment.
- Elevating base accommodates standing caregivers and seated family, even those seated in wheelchairs.
- In-bed scale with weight trending allows weights to be taken and trended without removing the baby. (Up to 14 weights stored)
- Giraffe Pressure Diffusing Mattress (PDM) is our most advanced development in neonatal mattress technology. Through an innovative softer support surface, the Giraffe PDM helps relieve pressure points and preserves skin integrity while also improving clinical efficiency by reducing bedding expense.



Technical Specifications

Dimensions

- Maximum Height (bed raised): 70 in (178 cm)
- Minimum Height (bed lowered): 58 in (147 cm)
- Footprint: 45 in x 26 in (114 cm x 66 cm)
- Weight: 304 lbs (138 kg)
- Floor to mattress height: 32 in to 44 in (81 cm to 111 cm)
- Mattress size: 26 in x 19 in (66 cm x 48 cm)
- Access door size: 11 in x 31 in (27 cm x 78 cm)
- Drawer size: 19 in x 20 in (48 cm x 50 cm)
- Drawer depth: 8 in (20 cm)

Physical Characteristics

- Mattress tilt angle: 12°, continuously variable
- Microfilter: 0.5 μ - 99.8% efficiency (3M Filtrete™)
- Tubing access ports: 13

Electrical Power Requirements

- 9A @ 115V ~ 50/60 Hz
- 4.5A @ 220/230/240V ~ 50/60 Hz

Standards Compliance

- IEC 60601-1 (amendment 1 and 2)
- IEC 60601-1-2
- IEC 60601-2-19 (amendment 1)
- Federal Regulation 21 CFR CH-1 (4-1-92 Edition)
Section 1020.3(n) - X-ray Attenuation

User Control Settings

- Baby (servo) temperature control: 35-37.5°C in 0.1° increments
- Air temperature control: 20-39°C in 0.1° increments
- Servo humidity control range: 30-95% relative humidity in 5% increments
- Alarm sound level: Adjustable audible levels

System Performance

- Microprocessor-based control system: Self test functions are performed at power-up and during normal operation
- Temperature variability and distribution: Exceeds IEC-60601-2-19 incubator standard
- Patient measurement accuracy: $\pm 0.3^{\circ}\text{C}$ between 30° and 42°C
- Air Velocity: <10 cm/sec Whisper Quiet™ Mode, measured 10 cm above the center of the mattress
- Sound level: <50 dBa Whisper Quiet™ Mode closed bed, measured 10 cm above the center of the mattress.

In-Bed Scale Performance

- Accuracy: ± 10 g (0.35 oz)
- Range: 300 g to 8 kg (0.66 lbs to 17.6 lbs)

Servo Oxygen Control Performance

- Control Range: up to 65%
- Display Range: 0 to 99%
- Recovery Time: <10 minutes to 5% below set point after open door
- Alarms: $\pm 3\%$ from set point
- Offset: $\pm 5\%$ average O₂ to display

Humidifier Performance

- Recovery time: <15 minutes (typical) recovery to 75% RH with 39° C air set temperature
- Operating time between refills: >12 hours @ 65% RH control setting in a 25°C / 50% RH ambient
- Reservoir capacity: 1000 ml
- Accuracy: $\pm 10\%$ for settings up to 85%; minimum 75% for settings > 85%

Operating Environment

- Temperature: 20 to 30° C
- Humidity: 10 to 95% RH (non-condensing)
- Air Velocity: Up to 0.3 m/sec

Storage/Shipping Information

- Temperature: -25° to 60° C
- Humidity: 0 to 95% RH (non-condensing)

Service and Maintenance

- Battery: 9V NiMH
- Recommended Calibration/ Preventative Maintenance Period: Annually
- Limited Warranty: One year parts and service.

GE Healthcare
P.O. Box 900, FIN-00031 GE, Finland
Tel. +358 10 394 11 • Fax +358 9 146 3310

www.gehealthcare.com



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