

Giraffe OmniBed

Description and Application

The Giraffe® OmniBed® is a richly-featured neonatal microenvironment that combines the thermal advantages of a double-walled incubator with the access advantages of an open bed radiant warmer. Conversion between an incubator and an open bed warmer happens in seconds with a touch of a button. In either open or closed bed operation, the OmniBed provides microprocessor controlled thermal support. Stress on the infant, staff, and family members is reduced by eliminating the need to transfer the baby between incubators and warmers. Less equipment is now required for care-giving, cleaning, service, and storage. The OmniBed pioneered developmentally appropriate features including the patented Baby Susan™ rotating mattress and internal bed tilt.

Features and Benefits

Patient Accessibility

- Patented Baby Susan™ rotating mattress allows the caregiver to rotate the mattress 360° for easy patient access.
- Elevating base lowers for seated family members, yet elevates to accommodate taller caregivers or special procedures.



Control Unit

- Centralized display/control unit provides accessibility from either side of the bed plus excellent viewing of all equipment and patient parameters.
- Integrated trending for control settings, thermal parameters, and baby weight provides historical reference.

Additional Features

- The patented radiant warming system heats the entire extra large mattress evenly without warming the caregiver. The baby receives uniform radiant heat regardless of position, even during X-ray.
- Servo controlled humidifier provides humidity up to 95% RH.
- Optional servo oxygen control system maintains an oxygen environment from 21 to 65% in incubator mode and reacts quickly during closed bed interventions.
- 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:
Canopy down: 70 in (178 cm)
Canopy up: 94 in (239 cm)
- Minimum Height:
Canopy down: 58 in (147 cm)
Canopy up: 82 in (208 cm)
- Footprint: 45 in x 26 in
(114 cm x 66 cm)
- Weight: 284 lbs (129 kg)
- Floor to mattress height:
32 in to 44 in (81cm to 111 cm)
- Mattress size:
26 in x 19 in (66 cm x 48 cm)
- Access door size:
9 in x 31 in (23 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: 0.5µ - 99.8% efficiency (3M Filtrete™)
- Tubing access ports: 8

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)
- IEC 60601-2-21 (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 (Regulates baby temperature in both open and closed bed modes)
- Manual Radiant Power Control: 0-100% in 5% increments
- Air temperature control: 20-39°C in 0.1° increments
- Servo humidity control range: 30-95% rel. 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
- Open Bed Performance Radiant Heater Mode: Radiant Heater Element: 450-480 watts
- Closed Bed Performance, Incubator Mode: Temperature variability and distribution: Exceeds IEC-60601-2-19 incubation standard
- Patient measurement accuracy: ±0.3°C between 30° to 42°C
- Air Velocity: <10 cm/sec Whisper Quiet™ Mode closed bed, 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: ±3% from set point
- Offset: ±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: ±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.

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