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 precise 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 clinician to rotate the mattress 360° for optimal 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- Integrated trending for control settings, thermal parameters, and baby weight provides historical reference.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 a controlled oxygen environment from 21 to 65% and reacts quickly during interventions.
- Optional in-bed scale with weight trending allows weights to be taken and trended without removing the baby.
- Pressure diffusing mattress to promote improved clinical efficiency.
- Unique Comfort Zone recommends best-practice in thermo-regulation using the neutral thermal environment.
Technical Specifications

**Dimension**
- Maximum Height: Canopy down - 70 in (177 cm)
  Canopy up - 94 in (238 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: 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: 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**
- Electrical Power: 9A @ 115V-50/60 Hz
- Fuses: (2) T 3.15A, 250V; (2) T 2A, 250V

**Standards Compliance**
- IEC 601-1, 1991; IEC 601-1-2, 1993
- IEC 601-2-19 + 601-2-21 (Amendment 1)
- Section 1020.30 (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**
- Micropprocessor-based control system: Self test functions are performed at power-up and during normal operation
- Open Bed Performance Radiant Heater Mode: Approx. 430 watts
- Closed Bed Performance Incubator Mode
  - Temperature variability and distribution: Exceeds IEC-601-2-19 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.

**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% up to 85%, greater than 75% for settings over 85%

**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

**In-Bed Scale**
- Operating Range: 300-8000 g 14 weight trend

**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.