

GE Healthcare

# Giraffe™ Incubator Carestation™

Creating the Path to Positive Growth and Neurodevelopment





# Small but Mighty – Empowering Babies’ NICU Journey

For every precious baby welcomed into the world, it is everyone’s mission to send them home as safe, healthy and fast as possible. At GE Healthcare, it's our job to help create controlled, protected neonatal environments for peaceful, fast healing.

GE Healthcare’s Giraffe Incubator Carestation is designed to:

- Create a healing environment, combining state-of-the-art technology, innovative design and exceptional thermal performance to help newborns thrive.
- Promote a healthy, nurturing connection between babies and their families, allowing parents comfortable, easy access to their babies and family-friendly information about the babies' progress.
- Offer clinicians enhanced visibility, trending and interaction with their tiniest baby with integrated features, including the translating and rotating mattress, elevating base and the optional in-bed scale.
- Provide continuous warmth during transport with the addition of the Giraffe Shuttle™

# Stepping Stones to Babies' Milestones

Part of GE Healthcare's renowned Giraffe Family of innovative products, the Giraffe Incubator Carestation provides powerful technology to promote the growth and stability of the most fragile babies, every step of the way.



# The Warming Touch of Care

The Giraffe Incubator Carestation simplifies—and enhances—the care continuum by offering clinicians the intuitive and reliable neonatal solution they need, and parents the access and support they want to steer babies toward better health. Features include:

- **Air boost** protects the baby from heat loss when either panel is opened to support thermal stability.
- **Large color display (10.4") and touchscreen user interface** helps clinicians streamline their workflow while monitoring and controlling the baby's environment.
- **Hands free alarm silence** allows clinicians to quickly silence the alarms while providing care and maintaining a quiet environment
- **Patented Baby Susan rotating mattress** enhances productivity by allowing the clinician to easily position the baby for clinical procedures, optimizing their efforts to get it right the first time and minimizing unnecessary baby stimulation.
- **Pressure diffusing mattress** reacts to the impact of the baby's body, reducing pressure points while minimizing motion and disruption and maximizing comfort.
- **Connectivity capabilities** allow communication with electronic healthcare records and hospital information systems; it is equipped for future updates and upgrades.
- **Customized screens** contribute to the personalized, patient- and family-friendly care environment while providing continued visual monitoring.

Newborns in the NICU need extra special care from clinicians and their families. One of the most advanced, neurodevelopmentally supportive microenvironments, the Giraffe Incubator Carestation is specially designed to give babies the comfort and stability they need to grow, heal and go home healthy.



# Specifications

## Dimensions

- Maximum height (bed raised): 70 in (178 cm)
- Minimum height (bed lowered): 60 in (152 cm)
- Footprint: 45 in x 26 in (114 cm x 66 cm)
- Weight: 304 lbs. (138 kg)
- Floor to mattress height: 33 in to 43 in (84 cm to 109 cm)
- Mattress size: 25.5 in x 19.2 in (64.8 cm x 48.8 cm)
- Drawer size: 19 in x 20 in (48 cm x 50 cm)
- Drawer depth: 8 in (20 cm)

## Physical Characteristics

- Full Color Touch Display: 10.4 inch (26.4 cm) LCD
- Mattress tilt angle: 12° – continuously variable
- Microfilter: 0.5µ – 99.8% efficiency(3M Filtrete™)
- Tubing access ports: 13
- Data collection: RS-232

## Power Requirements

- |                           |                                     |
|---------------------------|-------------------------------------|
| 11.5 A @ 100v ~, 50/60 Hz | 2A @ 100v ~, 50/60 Hz (Acc. Outlet) |
| 9.5 A @ 115v ~, 50/60 Hz  | 2A @ 115v ~, 50/60 Hz (Acc. Outlet) |
| 5.5 A @ 220v ~, 50/60 Hz  | 1A @ 220v ~, 50/60 Hz (Acc. Outlet) |
| 5.5 A @ 230v ~, 50/60 Hz  | 1A @ 230v ~, 50/60 Hz (Acc. Outlet) |
| 5.5 A @ 240v ~, 50/60 Hz  | 1A @ 240v ~, 50/60 Hz (Acc. Outlet) |
- Inrush for 1/2 cycle current <80 A

## 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

The device is designed to last at least 7 years in normal use when operated, maintained, and serviced in accordance with the instructions provided in the provided manuals. With proper maintenance and repairs, the service life can be extended as long as service parts are available.

Self-test functions are performed at power-up and during normal operation.

- Patient measurement accuracy: ±0.3°C between 30° and 42°C
- Air velocity: <10 cm/sec Whisper Quiet™ Mode
- Sound level: <50 dBA Whisper Quiet Mode closed bed
- CO<sub>2</sub> level: 0.3%
- Alarm sound level: Adjustable audible levels

## In-Bed Scale Performance

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

## Resolution:

- 10 g (Factory setting) or 5 g (user selectable on non-EU scales)

The resolution of scales distributed in the EU region may vary depending on the scale revision:

- Scales with revision 2.72 only have a resolution option of 10 g.
- Scales with revision 2.86 have a resolution of 5 g for weights up to 5 kg and a resolution 10 g for weights from 5 kg to 8 kg.
- The resolution on EU scales with software 2.86 and above is not user selectable.

*Note: For the European Union (EU) and the European Free Trade Association (EFTA) member states in Europe, check with your local regulations with respect to the Non-Automated Weighing Instrument (NAWI) directive as to the process and frequency for scale calibration.*

## Servo Oxygen Control Performance

- Control range: 21% to 65%
- Display range: 16 to 70%
- Rise Time: <10 minutes from 5% below set point in Whisper Quiet Mode
- Recovery from opening porthole: ≤ 5 minutes from closing porthole to 5% below set point
- Alarms: ±3% from set point
- Accuracy 5%

Inlet Pressure Maximum 620 kPa (90 psi)

## 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
- Servo Control Accuracy: ±10% for settings up to 85%; minimum 75% for settings >85%
- Ramp-up time: ≤50 minutes – Time to reach 75% RH with a 39°C control temp from cold start in 25°C, 50% RH room.

## Operating Environment

- Temperature: 20° to 30°C
- Humidity: 5 to 85% RH (non-condensing)
- Air Velocity: Up to 0.3 m/sec
- Water Ingress: IPX0

## Storage/Shipping Information

- Temperature: -25° to 60°C
- Humidity: ≤85% RH (non-condensing)
- Pressure: 50–106 kPa

## Service and Maintenance

- Battery: 8.4V NiMH
- Recommended Calibration/Preventative Maintenance Period: Annually
- Limited Warranty: One year parts and service

## GE Healthcare

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GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care.

Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers deliver better care to more people around the world at a lower cost.

In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Giraffe Incubator Carestation CS1

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