



Panda Incubator

Care with confidence

Designed for efficiency and ease of use, the Panda Incubator helps caregivers confidently manage a high-volume NICU. Its compact footprint and intuitive technology provides a thermoregulated environment giving newborns the fighting chance they deserve.

Intuitive

A smartphone-like interface, context-specific alarm and patient-based temperature suggestions allow staff to be trained quickly and focuses their attention on patient care.

Flexible

A smartphone-like interface, context-specific alarm and patient-based temperature suggestions allow staff to be trained quickly and focuses their attention on patient care.

Simple

With 50% fewer parts than comparable models, the Panda Incubator can be disassembled and reassembled twice as fast, enabling increased staff productivity. Plus, the steam and tubeless humidification system simplifies cleaning and helps prevent infection.

Reliable

Precise thermoregulation, accurate baby weight measurements and fast ramp up times reduce waiting times and give staff the confidence they need in the technology they rely on.



Specifications

Dimensions

- Height (fixed base option): 1,470 mm
- Footprint: 600 X 1160 mm [excluding monitor shelf] / 896 x 1265 mm [including monitor shelf]
- Weight: 102 kg
- Floor to mattress height (Fixed base option): 940 mm
- Mattress size: 650 mm length and 360 mm width and 25.4 mm thickness
- Mattress type: Removable, non-toxic, waterproof, radiolucent, washable
- Drawer size: 400 mm length x 390 mm width and 195 mm height
- Drawer load (Maximum): 6.8 kg
- Wheels: Double wheels, 4 of 4, 12.7 cm (5 in) with rotation and swivel lock, antistatic (option)
- Opening angle of the doors: 180 degree
- Mattress tilt angle: ± 15 degrees
- Mattress to hood height: 351 mm
- Mattress tray size: 402 mm x 700 mm
- Portholes (number): 5
- Tubing grommets: 2 per each corner and 1 on north wall
- X-Ray tray: 17 inch length by 14 inch width

Controller system

- Display: 7-inch (17.78 cm) full-color touch display, 800 x 480 pixels, 133 ppi
- Rotatable display: Yes, horizontal axis
- Touch panel lock option: Yes
- Algorithm type of servo control system: PID (Proportional Differential Integral) control algorithm
- Controller with LCD: With brightness control
- Selectable color combinations: Day and night modes
- Data collection: USB
- Trending: Air temperature, skin temperature, relative humidity, oxygen concentration, mode (baby or air) for one week with variable period range display; weight up to 14 measurements
- Alarm sound levels: Adjustable audible levels (50-65 dBa)
- Sound level: <47 dBa, when humidifier is running at 65% relative humidity (RH) and air mode set at $36 \pm 1^\circ\text{C}$ at ambient of 25°C
- Connectivity (service mode): USB
- Connectivity: Ethernet
- Comfort zone: Yes
- Quick reference guide: Yes
- Display brightness: Adjustable
- Mattress translation: 4 inches, Bi-directional
- Algorithm type for servo control system: PID(Proportional Integral Differential) control for air mode and Cascade control for skin mode

- Rotatable display: Yes, horizontal axis, 180 degrees
- Touch panel lock option: Yes, with display of key parameters
- Mattress tilt angle: ± 15 degrees, tilt knob on both sides

Thermal performance

- Baby (servo) temperature control: 34°C to 37.5°C in 0.1°C increments with override $>37^\circ\text{C}$
- Baby (servo) temperature display: 30°C to 42°C in 0.1°C increments with $\pm 0.3^\circ\text{C}$ accuracy
- Air temperature control: 20°C to 39°C in 0.1°C increments with override $>37^\circ\text{C}$
- Air temperature display: 15°C to 45°C in 0.1°C increments with $\pm 0.3^\circ\text{C}$ accuracy
- CO2 level: <0.3%
- Micro air intake filter: 99.8% efficiency
- Particle size removal: 0.3 micron
- Warm up time: < 30 minutes (Ambient 25°C , $37/39^\circ\text{C}$)
- Recovery from open portholes (2): 5 min
- Recovery from open door (1): <15 min
- Temperature overshoot: As per IEC, 60601-2-19 standard
- Temperature uniformity with a level mattress: $<0.6^\circ\text{C}$
- Correlation of the indicated air temperature to the actual incubator temperature: $\pm 1.0^\circ\text{C}$
- Air curtain: Yes, user selectable

Humidifier performance

- Reservoir capacity: 1000 mL
- Reservoir type: Transparent
- Humidification technology: Steam humidification
- Operating time between refills: 12 hours at 65% control setting at 36°C air mode at ambient condition of 25°C and 50% relative humidity (RH)
- Servo humidity control range: 30-95% RH in 1% increments
- Servo humidity display range: 5-99% RH in 1% increments, with $\pm 10\%$ accuracy and min 75% for setting $>85\%$
- Humidity display accuracy: $\pm 10\%$ RH (between 10% and 90% at 20°C to 40°C)
- Control accuracy: $\pm 10\%$
- Alarm: Water out alarm
- Ramp up time: ≤ 50 minutes for time to reach 75% RH with a 39°C control temp from cold start in 25°C , 50% RH room
- Recovery time: <15 minutes

Elevating base (optional)

- Floor to mattress height (range) for ebase: 810 mm to 1065mm
- Floor to top of display (range) for ebase: 1340 mm to 1595 mm

In-bed scale performance (optional)

- Accuracy:
 - Up to 2 kg: ± 2 g
 - From 2 kg to 7 Kg : ± 5 g
 - Up to 2 kg (Europe only): ± 5 g
 - From 5 kg to 7 kg (Europe only): ± 10 g
- Range: 300 g to 7 kg
- Resolution : 1 g

Servo oxygen control performance (optional)

- Control range: 21-65% with 1% increment
- Display range: 16% to 70% with $\pm 5\%$ accuracy and 1% display resolution
- Rise time: <10 minutes from 5% below set point
- Recovery time from opening porthole: ≤ 5 minutes from closing porthole to 5% below set point
- Alarms: $\pm 3\%$ from set point
- Control Accuracy: $\pm 5\%$
- Inlet pressure maximum: 46 psi to 87 psi (320 kPa to 600 kPa)

Battery backup (optional)

- Backup period: 20 minutes
- Battery strength visual indicator on display: Yes

Operating environment

- Temperature: 20-30°C
- Humidity: 10-95% relative humidity (non-condensing)
- Altitude: MSL to 7,900 ft (2,408 m) or 755 hPa
- Air velocity: Up to 0.3 m/sec
- Water Ingress: IPXO

Device classification

- Protection class: Class 1, Type B, continuous operation
- Ingestion of liquids: IPXO

Accessories

- Accessory power source: Up to 20W for Lullaby LED PT

Service and maintenance

- Battery: 1 Kva
- Recommended calibration/preventive maintenance period: Annual
- Limited warranty: 1-year parts and labor warranty; 3-year parts only warranty

Storage / shipping information

- Temperature: -25 to 60C
- Humidity: $\leq 85\%$ relative humidity (non-condensing)
- Pressure: 50-106 kPa