Care Plus Model 1000/2000 Incubators

Description
The Care Plus® Model 1000 and 2000 are microprocessor controlled single walled infant incubators. Optional configurations include a passive humidification system with or without a mobile cabinet. Additional accessories are available for accommodating a range of customer requirements.

Product Configurations
• Care Plus Series 1000
  Manual (Air) controlled incubator
• Care Plus Series 2000
  Manual (Air) and Patient (Skin or Servo) controlled incubator
• Passive Humidifier

Cabinet Options
• Cabinet
• Cabinet kit
• Cabinet drawing package
• Cabinet with door/shelf
• Cabinet with door/shelf kit

Upgradeable Accessories
• Rear Inner Wall kit
• Hygrometer kit
• Cabinet Bumper kit
• Humidifier kit
• I.V. Pole kit

Standards/Regulatory Compliance
• MDD CE Mark
• EMC CE Mark
• IEC 601-2-19
• Certificate of Export
• UL 544
• IEC 601-1
• CSA 22.2

Language and Voltage Configurations

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Warranty
• One year warranty for parts and labor

Incubator Physical Characteristics
• Incubator Dimensions (HxDxW): 62.2 x 61.5 x 83.1 cm
• Front Door Dimensions (HxW): 30.0 x 75.5 cm
• Mattress Dimensions: 34.8 x 65 cm
• Height mattress to hood: 40 cm
• Microprocessor based control unit
• Removable control unit for servicing
• Four access portholes; two front and two rear
• Two tubing access ports; one each side of hood front door
• Iris porthole standard on left and right side of hood
• Single position 10° tilt mechanism; both ends
• Maximum bed load: 13.6 kg
• Slide to extend mattress tray
• Hood tilt mechanism with positive latch
• Oxygen inlet tubing nipple
Progressive Alarm System

- Probe Failure
- Control Temp: Air temp. +1.5°C or -3°C of control temp.
- System Failure
- Air Circulation Alarm
- Patient Temperature (Series 2000 only)
  - ±1°C of control temperature (15 min. silence)
  - ±2°C of control temperature (5 min. silence)
  - <3°C or >42°C
- High Air Temperature
  - >38°C air control mode
  - >40°C air control override mode or patient control mode (Series 2000 only)
- Power Failure

Environmental Specifications

- Operating Temperature Range: 20°C to 30°C
- Storage Temperature Range: -25°C to 60°C
- Operating Humidity Range: 0 to 95%

Incubator Control Specifications

- Air Temperature Control Range
  - 20°C to 37°C up to 39°C with control panel Override switch
- Air Temperature Display Range
  - 5°C to 50°C
- Air Temperature Display Resolution
  - ±0.1°C
- Air Temperature Display Accuracy
  - 5°C to 22°C: ±0.5°C
  - 22°C to 42°C: ±0.3°C
  - 42°C to 50°C: ±0.5°C
- Patient Temperature Range (Series 2000 only)
  - 35°C to 37°C up to 37.5°C with internal adjustment
- Patient Temperature Display Range (Series 2000)
  - 22°C to 42°C
- Patient Temperature Display Resolution (Series 2000)
  - ±0.1°C
- Patient Temperature Display Accuracy (Series 2000)
  - 30°C to 42°C: ±0.3°C

Incubator Thermal Specifications

- Maximum Air Temperature
  - ≤40°C under normal or single fault conditions
- Temperature Variability
  - ≤0.5°C
- Temperature Overshoot
  - ≤2°C after control temperature change
- Temperature Rise Time
  - ≤40 minutes for 10°C temperature rise
- Intervention Temperature Drop
  - ≤5°C with open front door or portholes
- Intervention Overshoot
  - ≤3°C after closing front door or portholes

Incubator Performance Specifications

- Heater Power Output
  - 450 Watts
- Noise Level
  - ≤60 dBA inside patient compartment as resulting from operating parts
- Oxygen Concentration
  - 25 to 45% at 5 lpm input
  - 35 to 65% at 10 lpm input
  - 45 to 75% at 15 lpm input
- Carbon Dioxide Concentration
  - <0.5% under simulated infant occupancy

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Humidifier Specifications

- Humidification
  - 55% ±10% at 39°C control temperature and 25°C and 50% RH ambient conditions
- Reservoir Capacity
  - 12 hours at 60% and 36°C control temp
- Hygrometer Display Range (Accessory)
  - 20 to 90% ±10%

Cabinet Specifications

- Internal Volume: 0.3 m3
- Height to Bed: 92 ± 2 cm
- Casters: Four; 7.62 cm diameter; front two locking
- Shelf: Single optional shelf
- Doors: Optional door

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