

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 601-19
- Certificate of Export
- UL 544
- IEC 601-1
- CSA 22.2



Language and Voltage Configurations

120V		220-230V		240V
50~	60~	50~	60~	50~
English	English	English	English	English
	Spanish	Spanish	Spanish	Mandarin
	Portuguese	Portuguese		
	Mandarin	French		
		Mandarin		
		Italian		
		German		
		Russian		

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

Electrical Specifications

- 120 Vac 60 Hz Models
115 Vac ± 10% 5.7 amps
- 220-230 Vac 50/60 Hz Models
220 Vac - 10%, 230 Vac + 10% 3.0 amps
- 240 Vac 50/60 Hz Models
240 Vac ± 10% 2.7 amps
- Leakage Current
120 Vac 50/60 Hz: less than 100 microamps
220-230 Vac 50/60 Hz: less than 200 microamps
240 Vac 50/60 Hz: less than 200 microamps

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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