Ohio® Model 4300/4400 Infant Warmer Systems

Description and Application

The Ohmeda Ohio 4300 and 4400 Infant Warmer Systems are microprocessor-controlled neonatal thermal regulation systems which provide precise manual and servo control of the neonate’s thermal environment. The Model 4300 includes a large, non-elevating bed, while the Model 4400 includes a large, elevating bed. Both models are intended for long term and procedural care, as well as use as an operating table.

Features and Benefits

Control Unit
- Microprocessor control maintains the predetermined heating level.
- A selectable pre-heat setting is incorporated (0-25% power without alarm) for pre-warming of the mattress.
- A 20 segment “% POWER” LED bar displays actual power in 5% increments to show the level of power required to maintain the infant’s temperature.
- Patient temperature, control temperature and elapsed time displays are digital.
- The control unit provides integrated, progressive, audible and visual alarms.
- The microprocessor controller performs diagnostic self checks on the status of the unit’s circuitry.
- On initial power up, the microprocessor checks and verifies all system functions as well as the integrity of the processor.
- The control panel may be reversed to face the back of the unit for use in an operating room.

Bed
- The hydraulic tilt system provides tilt of up to ±10° for positioning in Trendelenburg and Reverse Trendelenburg positions.
- The four bed side panels fold down for complete access to the infant.
- The rear panel includes tubing management slots for retention of ventilation and aerosol tubing.
- The bed incorporates an X-ray Cassette Tray. A grid location marking system on the side panels matches the tray for location of the cassette. Bed construction is radiolucent.
- A chest drainage hanger allows for convenient placement of chest drainage systems.

Heater Assembly
- The radiant heater provides a focused heat source using a cal-rod heating element which directs controlled heat to the bed surface.
- The heater assembly, located above the center of the bed, consists of the radiant heater, parabolic reflector, integral observation light, and visible red alarm indicator light.
- The heater module rotates 90° to the side to facilitate X-ray procedures. The heater automatically shuts off when in this position.

Additional Features
- Ohmeda’s dovetail rail system for accessory mounting.
- Rounded casters for easy transporting across carpeting.
Technical Specifications

Dimensions
- **Height**: 4300: 185 cm (73 in); 4400: 183 to 203 cm (72 to 80 in)
- **Depth**: Both: 114 cm (45 in)
- **Width**: Both: 76 cm (30 in)
- **Weight**: 4300: Approx. 101 kg (222 lbs); 4400: Approx. 91 kg (200 lbs)
  - Standard 3 Drawer Pkg: 25 kg (56 lbs)
  - Rotating 3 Drawer Pkg: 32 kg (70 lbs)
  - Standard Deep Drawer Pkg: 25 kg (56 lbs)
  - Rotating Deep Drawer Pkg: 32 kg (70 lbs)

**Foot Print**: Both: 75 X 114 cm (29.5 X 45 in)
**Floor Space**: Both: 8572 sq cm (1327.5 sq in)
**Bed Size**: Both: 61.2 X 76.5 cm (24 X 30 in)
**Bed to Floor**: 4300: 101 cm (40 in); 4400: 98 - 118 cm (38.75 - 46.5 in)
**Bed Tilting**: Both: ±10° Reverse Trendelenburg and Trendelenburg, damped

Operational Environment
- **Operating Temp. Range**: 10°C to 40°C
- **Storage Temp. Range**: −25°C to +60°C
- **Operating Humidity Range**: 0% to 95%

Electrical Power Requirements
- **120 VAC, 50/60 Hz Models**: 115 V ±10%; 6.6 Amps
- **Nominal Power Consumption**: 600 Watts at maximum heater power.
- **Line Voltage Compensation**: Input voltage is monitored and heat output is adjusted to compensate for line voltage variation.
- **Leakage Current**: Less than 100 microamperes with ground wire open.

System Control Characteristics
- **Microprocessor Based Control System**: Self-test function performed at power on and continuously during normal operation.
- **Heater Output**: 0-540 watts power adjustable from 0 to 100% in twenty 5% increments.
- **Patient Control (Servo) Mode**: 35°C to 37.5°C in increments of 0.1°C (95°F to 99.5°F)
- **Manual Mode**: Indicates manual mode heat selection range from 0 to 100% in 5% increments.
- **Temperature Variability**: Less than ±0.3°C
- **Resolution**: ±0.1°C
- **Probe Interchangeability**: ±0.1°C
- **Probe Range**: 30°C to 42°C (71.6°F to 107.6°F)
- **Proportional heat control with zero voltage switching to minimize radiated and conducted EMI.
- **Observation Light**: 100 foot candles at center of mattress; estimated lamp life 3000 hours.

Ordering Information
1. Select the model you will be configuring.
2. Do you wish to include the RS232 option?
3. Select your drawer option.

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For more information, contact your Ohmeda Medical sales specialist or authorized agent.